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<210> 7403

<211> 544

<212> DNA

<213> Homo sapiens

<400> 7403

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ggccagnct ctggatatcc ttttttttaa ttttttagag caagacgtat ttcaacgact 480
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<211> 420

<212> DNA

<213> Homo sapiens

<400> 7404

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 attttttgaa aaacccggta gactttgcgg tgaccatttt tgttgtactt tttttttttt 360
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<210> 7405

<211> 525

<212> DNA

<213> Homo sapiens

<400> 7405

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<210> 7406

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7406

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 ctttaaaagg gcccggttt 559

<210> 7407

<211> 533

<212> DNA

<213> Homo sapiens

<400> 7407

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 ggctacaggc caacaaagag caaatggtac agtgagagat gtgacaggcg angtaaagca 480
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<210> 7408

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7408

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ccaatttagt aaccagaaag gaatagatcg gcctggcgtg gtagctcatg cttgtgatcc 180
cagcactgtg gacggccgag cgcggcgac gattgagcct aggacttcca gaccggcctg 240
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tgccagctaa ttttgggttt atttttttgg taaaaacngg gtttttcngg ttgggcaagc 480
tgatctgagc ttctgacctt gagtatacg cccgcttngg cttccctggg ggctgggaat 540
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<210> 7409

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7409

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ggaatacagg catgtgccac cagcctggc taatttttgt attttagta gagatgggg 180
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cagtgccttc cgtgatgtgg cccgtctcct agagtccagc agaccggacc ttcgcaagaa 420
aaactgctga ggagatggag aangaaaggc ccaaagcctg gtattcactt caaaagcnag 480
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ttgganga

548

<210> 7410

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7410

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ttaaatatca gaatatctaa tacataccgc aatatgtaaa gaatttttaa ggTtgggggT 480
actattggaa gatcagnacc ttacccggan ctggatcnag tttaaaaaga aactcantgc 540
tggtttaaat ttttgaaaaa ggnc 564
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<210> 7411

<211> 530

<212> DNA

<213> Homo sapiens

<400> 7411

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ttacaggcat gtgccactac tcctggctaa tttttattt ttagtagaga tggggtttct 180
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ccaaagtgct ggggttacag gcatgagcca tcg'gcctgg cccctacatt tttaatgcct 300
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 caaatagttt taataaatca aataccttta aaaatataaa caatttataaa attggtctaa 420
 gacccaggtt ccaaccttan gatctggata tgaccataat gctatantag catattaaag 480
 cngagacccc gaccatagcn gnaacccttt naaagggnaa aaacctggta 530

<210> 7412

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7412

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 gagaaaagcn ccagtganat gtctttccca ttttcttctn tccgccacgg aacacgcaca 180
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 ctaaaacgag gtctgttttt ttaaaaaagt tctaaaacan caggaggaaa acacatggaa 360
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 tgaaaggggc aaagggtcc ttgcncggc anggacctgc ccggccacct tcnattccct 480
 ggccttaacc cttctttttt cctttnaaaa ggcaaancce cacttttggg actcggtcgn 540
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<210> 7413

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7413

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 tacaggcgag cgccaccaca cccggctaata ttttgcatth ttagtagaga aggggtttca 180
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 ctgtttcctc atcttaaaat ataacaatat ttcctgccct gcctaaacca ttgggatggt 480
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 acncctgngn gaccatgtca ng 562

<210> 7414

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7414

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 tccttcctgc taataactta atggatatat attacttttt accatcataa atgctttata 240
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 aattccagaa aaattactgc atactcagag tgccaatttt tcagaacttc atgcaaaatg 480
 tttatttggc cacaatctca aaactatatt cccaacttgt tctgaagttc atattaatat 540
 tngnaactta aatggcnttt aaa 563

<210> 7415

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7415

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aacataaaag acatttaata agttataatc aagtattatg tttcaatttt gttgtgagtt 180
tattacattt gaaagggtgt aacacattgc acataatgaa atagctgtta tttcctttgg 240
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tgagtaagcc cattagctag gaagagatta taacactgtt ccctgactat aaacttaatc 420
ctagttagca gcttttctaac tccctttaca acagggaaga ctcagtggga aaatgtagaa 480
aaccaatgc actttgnacc acaggagaga ancacctgng aatatcatgc taggnnggaan 540
ggaaggnc ttatttang 559

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<210> 7416

<211> 525

<212> DNA

<213> Homo sapiens

<400> 7416

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ctccactgtc ccttccccct accaaaaatt aagtatagac cacctgactg catccattta 180
tcaatattaa ctcagctctg gcttcatcag atttctcctt aggtctgatt tcttcaactca 240
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ctaggctgga atgcnagtgg tggaatctca gctcaatgca aactctgcct tctgggttca 360
aggcccatcc tccaccttaa gcctcctgag taactgggac cccagggtgc caccaccaca 420

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ccgggctaatt tttnggnttt ttattnaagn caaggtttac catggttgcc caggctggtc 480
ttcnaattcc tggctcaagn aacctattgg cctngggctt ccaaa 525

<210> 7417

<211> 480

<212> DNA

<213> Homo sapiens

<400> 7417

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attttcaaga tggcaccttt ccccaaactt ctataccatt cattaaacat agactgcaaa 180
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cagctgttag acagcatgct gntccccgct actgncttac acccaaccag cttcatgngg 420
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<210> 7418

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7418

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atgcaaaactg tcattctttg aaactgctgg tatgtggaga ttgcacaact tcatgtacaa 180
atgaacatgg aaccagagaa accacttagc agttacactg gtacaacaac accatacaaa 240
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 gaacaaaaac atcacaaaca ggtaaagcat ggagaatctg gtggggtnaa gggccttgga 480
 antgccaaag gaaaatggat ggtactatcc ntttgggggg tcaatcactt atttgaaagg 540
 gctggaaaaa gacaagta 558

<210> 7419

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7419

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<210> 7420

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7420

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<210> 7421

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7421

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<210> 7422

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7422

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gtccggcagg ctggtgggcc ntttaaggctg tgcagccgtt gcaacacccc tggncgctta 540
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<210> 7423

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7423

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tacaggtgcc cgccaccacg ctcggtaat ttttttgtat ttccagtaga gacggggttt 180
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tagcatttca gttttcagtt gaagactaaa aaatcaaate aattttaaag ttaaaatata 420

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ctctaaatat tatccctcct tgggagtaat tgntgctatt gggtttatga tagtcatcaa 480
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 ataggaaaaa agttgngg 558

<210> 7424

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7424

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 cactgacaga ttccaaagct taggttcttt cccactcccc acccaggagt aaggaattct 360
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 ttcagtaagt atgaacaaaa ttagaactgg gtagccagcc cggggtcggg ggggaggtcc 480
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<210> 7425

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7425

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atgcacctc taacactgac caacataact aagtacaaat gaagtcaatg gtgtacccca 180
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 gcana 545

<210> 7426

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7426

gagacagagt ctcactctct tgcccaggct ggagtgtagt ggctgatct tggctcactg 60
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 tacagatgcc tgccaccacg cccagctaatt tttttgtatt tttagtagag acggggtttt 180
 gccatgttgg ccagggtggt cttgaactcc tggcctcaag tgatctagcc gcctcggcct 240
 cccaaagtgc tgggattaca gacgtgagcc actgcgcccg gcctcaggct ggaattctga 300
 tcccccaat ttgcagacaa ggaaactgag attcaggagg gtgaatggat tttccaagc 360
 tcacacacct gacaagtggg acaacaaaat tcaaaccag gtccgcaggg ttctgaggtc 420
 aaggctataa tccccaaggg agcctggctg ggtcaagctc aaggagcatt tngngaactg 480
 aantaaagcc taatcnggtg ctgggtatga acgcaacaan caccactgga naaggccaan 540
 ttggcacanc ttgttaagca ggaagcccca 570

<210> 7427

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7427

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aaagactggt tctgtcacca ggctggagtg caatggtgtg atcgtggctc agtgctgctt 60
caaccgccta ggctcaagca atcctccac ttcagcctcc tgagtggctg ggactacaga 120
catgcatcac catgcctacc taatTTTTgt atTTTTgtg gagatgggggt tttgccatgt 180
tgcccaggct ggtctcgaat tcctgagctg aaatgatcta cccaccttg cctcccaaag 240
tgctgggatt acaggcgtga gccaaaagtc aaaaatttta aaaaggtaaa tgttgccaat 300
tcatttttaa aagttttatt attttgggtg ctccaaaaca tttcttttg aaaatgaagc 360
acacagaata catttaaaat ctgatgtaaa aaaccaaaca tctgatttta aatggtggta 420
tacaaaaatc caatcccagt aaattggctc ctttccaaga atggaagcat cttttcctta 480
ngaactacat tttcttttat ggnaggaaaa aaaaaatcta ttaaataaag tctggtccaa 540
agactnaaga cactggaaat ncccggnga ngga 574

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<210> 7428

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7428

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ganaaggagt ctcactttgt tgcccaggct ggagtgcagc ggtgcaattt cagctcactg 60
caacctccac ctcccagggt tacgcaattc ttgngcctca gcctcctgag taggtgggat 120
tacaggtgcc cgccaccacg ccctgcttat ttttgtatTT ttagaagaga tagggTTTTg 180
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ccaaagtgct gggattatag gagtaagcca ccgcgcccgg cccaataaag ctctttttta 300
gtgatcatgt ctgaactcta cagtaatgag gctttaccac attcccatgt gacccgacgt 360
tgatgtgact acacaagaag aacctgttaa ctaaagccaa gaaggcggag tcgacagctc 420
cgtgactcgt taggaaggat gggaaatgca ntgtagaaag acaaccctt ntccagagct 480
tggaacacaa gcttcatctg aagacgatta anattccctt cttgganaaa ttggcaattc 540

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ncanggcacg ccnct

555

<210> 7429

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7429

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 ctgacagaat aaatgcaggc aatttataaa ccaaggggac tgcagggaaa atcaggattg 120
 gcagccaggg agagaaaaga ggcacacccg gagctggtat ccctcacctc caccactcag 180
 caaggcgccg gacagatata cggagggcac tctgcctctg ccgggggggt tttttagaaa 240
 aggaattgca tagaagatac agcaagaggg aactccacaa caacaaaagt gttccatata 300
 ggaaaagcca aggttgtcat gttttgttta aaaaagaaaa acgacaaagc acaaaacctc 360
 aatccgacct ttctgcagtt gaactgttcc aaaggggaca gtaggtggat gacactgcct 420
 cttaacacg actgctgggg atttttctct gacaaacatt gggnccttct tacaagagca 480
 aagaggaagg caccaacttg cttaactcac attaaactca cacntttaca ccatgacnta 540
 ccacacncag ggagntcctg n 561

<210> 7430

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7430

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 tacctttttt tttttaatac aatctatata cccttcctt cccacacaaa ctcacaaaag 120
 gagattaaac ccttccagga ttgccatcaa gcttcccagag atggccaggg ccaagaaaga 180
 atcatctctc aacatgttaa gaaacggctg ccattcttag gctctggggg tgaagcagca 240

gcattcccag gacccaaggg ccagagagag gaaaagaaat gactgtagtg tgacaggatt 300
 ctaggatgaa catgtccagt gactcctggc atggcagact ggctcccaga attctcaggg 360
 tgtgagtaaa ggtggggggcc ctatggctct tcagaggctg ctcaataggt cangggtagg 420
 gtataggaac tggggatcag gcatgcaggg atgggggtggc agaaaaaacg ctgnnggnta 480
 tgctccagac agagcgaccc catcaggcta cccactactc atgacatgta atgaacaggg 540
 ccaatcctga cntttaagga 560

<210> 7431

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7431

gagatggagt cttgtattgt caccgggct ggagtgcagt ggcgtgacct cggctcactg 60
 caacctctgc ctccaagega ttctcctgcc tcagcctccc aagtagttgg gattataggt 120
 ccctgccacc acgcccagct aatTTTTATA ttttagtag agacagggtt ttgccatgtt 180
 ggccaggcta gtctcgaatt cctgacctga ggtgatccac ctgcctccgc ctccctaagt 240
 gttgggatta taggtgtgag ccaccacgcc cagccctttt taagaaggtc tttctactgc 300
 ctTggaaaaa attcagattg ctttaggaat cattactttc tccaggccta cacctctcac 360
 agggaagaaa aaagtgcattg tctcctaaga agtgccagag cagttaacta aagcacttgc 420
 ttcaatgctg gctctaagct aatagaacaa gaatcccaaa tgaagcccac aagagttttc 480
 tgnaaaacac tgacccgaaa aacacttgct tttggtttta acttggccgt taaaaaatat 540
 tattaacctn ccgaa 555

<210> 7432

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7432

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cttgccagaa ggggttgattt ttaattatgt gtatatacaa acttctctat tttaacattc 60
aacatattca ggattaattc tagaaagatg ctatagctga tttataaaac aaaatgattt 120
aggatcagaa agaaaatagg ggcacacaat ttcatgtagt ctctccctaa ctacccccaa 180
ccatagcatc acaagggtttt tttttttcct aatgccacaa ttgaaacctg tattaactta 240
aaagttgaca ctaaaggcag gaattaagaa gtcatttttt atggctttta agcacttgaa 300
tgctttanaa ccccttgaa aatgctagtg aacaggctctt attcctttaa atgttgcttt 360
gatttgaatc ttggtgaaat ctagattccc tattaaatag ctgcatgcta attttggaga 420
aaagtcaatt taaaaccttt aacaactact ctattggact tgaaanaang ggactttanc 480
atgtcccttg ttgggcttan aaaaancctt caaccctttt ttgncaacct aagataaaaa 540
ccatggatgg ggacctcc 558

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<210> 7433

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7433

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gagatggggc ctgcctctgt caccaggct ggagtgcagt ggcaccatct cggtcaccg 60
caacctccgc ctcccagggt caagcaattc tctgcatcag cttcccagat agctgggact 120
acagatgtgt gccaccatgt ctggctaatt ttgtatttt tagtagagat ggagtttcac 180
catgttggtc tcaagctgct gacctcaagt gatccacctg cctcagcctc ccaaagtgct 240
gggattacag gtgtgagcca ctgtgccgg ccagcatgga cttttaagg aagtattttg 300
tatcttggtt aagaagttgc agcaagaggt ctttcttgct aagagagata ttttatctta 360
tttactggtg gttaaaaatt atctttcttt aacaaacact ctaaggagtc ttttaaagaa 420
ccntaaaang gttattacca aactagaatt tttaatgggtg ccataaaca aaattctggt 480
tgcttanttg natggnaatc ggcttcaact tgaaacttag gaccaacat tttggcttgg 540
tgagccaaca ttaatctgga g 561

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<210> 7434

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7434

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cagattttct tgctttaatt cttctctata ttaccacagt aaaatattta acaaagtcca 60
agagattact gatatgcaat aatgacctat gactttacat taatggagtg atgtatcaat 120
aataaactga tcagttaagt aactggaaaa tgtttgcattg taaagaatga ttcactatcc 180
tttttatctt gtattgaaat cgtcaaaaca tttaaaaaca caaagttgaa gtaattttta 240
ataataataa ctgtgaaata ctgcaacatc ttgaagtact ttataaatga ccaaaaacag 300
gtaaaatttt gttcagtata acttcagtga agaagttttt tgacacagaa ctacatatat 360
ttttaaattg gtaatccaca taagatatac acaaaacctt caaggtgact acattgggtca 420
ataaataaaa ctctacattg nttggtttta caggcctagg agcttatacc tcagtaccac 480
cctttaagga aatctaagtc tacagaagga cttgtccaaa tggttgggcc catnaattct 540
ttacaaaaac ctccaat 557
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<210> 7435

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7435

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cctgacagac ccaggaggg tcggtcagt tttcaggagg ttacttgaa tcactgtcca 60
ctttctgggc tttgcctcct cctatctgtt tgctctgttg ctgttcagag aagaaccgtt 120
gcgtggactg aagaacctct gctctctgct ttgcctgggg tgcaaaactgt gtaggaaatg 180
gttgtgtcat tctcacagtg gcaggggctg actggaactg cttctggtag acaatgctgt 240
tcattttgct ggactggctg ttcggacttg tagaagtagc ccggaaggga ctagatgttg 300
gtgtggtgct tctaccagcg attggaggtg tgcctggttt tataatcaatg ccacttccaa 360
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aggcttttag ttccatttca gacatttttc ctgtggttgc aatcatgcta tgctgngttc 420
cagcaggaat taatcctctt gaaaggctgg cttacttggg caggacgact aaaactttaa 480
ncctggcctg gggaatggta tgctgaatgg ggcttaaaaa tcttaagcaa accattanag 540
gttncctgna aacca 555

<210> 7436

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7436

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acaaatttct cgggaggcac gtagcaaaag gccattgagg aacagagcct gatgaaacga 120
acaatttttc aaagtctggt tacagagaag gaaagtgaag catctcaagg ctgggatgct 180
gtgtcccacc cccacccac cccgccacca agtgacattg aggctgggca ggccacatgg 240
cctgggccct ggcgctggcc actcatttcc ttcaaaatct tggttttggc aaaaacatgg 300
caagtcggca aagtaaactg tctcgccagt gggggtggtg aggggtcctt cctctcttgg 360
gtggggaggg agtcagacgc ccagtgtccc aacttccatg cacacacact cacactcata 420
cactccttct cgctgacctt ctcttggtg caacaagcca gcccgtgcc tgcagatcac 480
ctggtgatgt gtgcacctga tggagctatt aaggccctnt ttttcccagg accaagacag 540
taacaggaan cngaaggg 558

<210> 7437

<211> 590

<212> DNA

<213> Homo sapiens

<400> 7437

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cacaaacttt tcactgtatt taacaagtta acagtgtcaa actacacgtc actacctgtc 120
 aaacccaag cactcaactt agaaacaaaa agcgcttgga gcactgaatg gaaacagaaa 180
 aaggctaaga aaggccaaca gagatatttt agaagcagtt aaagaggatg gtttagggag 240
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 aataattttt agaaggacat gagacaaaat tagccaggct tgggtggcacg catctgtagt 360
 cccagatact caggaggctc aggcgggagg atcacctgag cccaggattt caaggatgca 420
 atgagctatg atcatgccac tggacttcan cctggggcca canagtgaga gactcctctt 480
 tttaaaacca aaccngggga ttngaactta gggatcaaga gatccgagga cttacacttt 540
 ggggnttaan cgggttttaa actttccact ggccaaatgn aaaaaggggc 590

<210> 7438

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7438

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 caattgagtc cataggagaa gacgacattc ttgcttgaca aggtaggaac aaattcatta 120
 tatttcacca agactaaaat tacaagttt ggggtgtgtaa aggcaagatt taattgttgg 180
 gaaaatttat ccgagccagc caccacgaca aaagccaggc tgaccaaate aaatggattc 240
 tttacatcct ccaagtttca gaagaatctt gaatatgggt agccagaaga tatggtaaatt 300
 ttgaccccaa acatttgctt gaaggagtaa ggtcttctaa tgagtgaatg tcaagagatc 360
 agcacataag taatagctta tttatccttt aggtcacatc catctgtgaa tcaagcagcc 420
 ttgcagtcca catgggcagc atcttttcca tggcttcgag gctcaatgat caaaggttgt 480
 ttaaccagat cttaaaggtn ttttaaaagg cctctncatt ttttttttgg gtggttttaa 540
 agagagaaat ncncagggg an 562

<210> 7439

<211> 541

<212> DNA

<213> Homo sapiens

<400> 7439

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gnttctttga attttatctt tatttctcca taagggaat cagagaaata tgctttcctt 60
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aaactagcta tttttacagg ccaataaagc aacatgcaat cccctcaac aaatttaaatt 180
aatcaggcaa tactaagaat gtatattcca ttaaactaaa ataaacaagg ttgaaatgtg 240
gtacagaatt cactgatgag cctgtgaact ccacgtgagg atgtccagtg ccttatttat 300
ctcagtaacc agagtaccca gcacacaaga taaaagtggg tattaccta gtggccacta 360
ttttattaat aatgcacata acatatgctt atcattaact cttaaaaaga ttattattta 420
actatncagg aactaccata cacatttcaa catacaaggt tcctatcttt nttagaatnc 480
ccattaatat ttggaagaat tgggaaangt tccccanggc tttcctatac aatcccccca 540
n 541

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<210> 7440

<211> 536

<212> DNA

<213> Homo sapiens

<400> 7440

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acagttgcct gtttattatt ttcaaaaaca aaacaaaaac aaaagacatt caaaattccc 60
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agcatcagtt gtactagggg gtgggctgtt gccctggcac ggctggatga acacttgcac 180
cagggatggc catcagaaga gctgcaggcc agttttgagc ccatgcagct gcccctggct 240
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acagctcagg cccaagggtg cagtcttgca tgttgagggt tccagccgct gctctagcac 360
aggctggtcc aaaagatcat ggtgtcataa ttctccagca tgagctctgc tgggtcctcg 420
nctgactggc attcggncta agggaaatgt gtcccatcna cgttnttgag ctttaactgca 480

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tcaaagcctt gcaaagttct ntttttgggc caaaacctac antttcggag gggggg 536

<210> 7441

<211> 533

<212> DNA

<213> Homo sapiens

<400> 7441

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tcaccactc cagggaggaa cagaaaatcc ccaccccctt ccattctgga gatttcgtat 120
ctaaagcctg agaggcgagg atgaagtata aaaatactat ttacaaaggg aaggaggtat 180
ctgttgctta accgtagaca ccccatccc cacaccccctt ttgatcaaaa aaaaaaaaaa 240
aaaaaaaaa aaaggcccct gggaatcaat ttaagtatag aactagccct cctntanagg 300
ggcccacaaa cctnaacatg gaataggaag ctccgagatt aactgaggaa gagactgaat 360
ggatagcacc cgtgggtcct ggccaggagg nggccctctc ttactctgga gcagctggcg 420
cccgccaagc cttgggtttca tanggcccat gtaaccctgg cattttcctt tnggnccctgn 480
tttttggttc aaacaagagc ttcttggcnt nccggggagg cnccttggttc ctt 533

<210> 7442

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7442

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tcaaaaccct aaatccaaac taaaacatcc cgatttttta actagcactc tctttttctc 120
ttccattttc ttaaggagtg agttcacata gcaagctctc tgcccacaca cccttgagc 180
tcagttaatg cttctcctcc cagtcctcca ttctctccct ggggccactt tctcagagat 240
gccttatttc atgaacaaag ctgaataccc taaaagcgac tcctaattgt tcctctggga 300

caggaaacat ctcttggcct caataagaaa tctctcatca tgttccaagt gaattttcgt 360
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 gcaagcatgt gtgggtagga gctctgcact cattccagat tccataggaa ccaccttaaa 480
 angactcttc tctgaagttg gcctggtggt atnggggang gcagcnttgc agttaatggc 540
 tnttccttaa 550

<210> 7443

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7443

gcataatacc aaagaattta ttgtaaatgt agtggcaa atacattcagaa taatcatcat 60
 taaaaaggaa ctagaaaatt atacatgttt aaagtatgtg cttttttccc accaccttta 120
 agttaatggc tagtaccaac attttaagta atgaaatact taatgtgatg acccattttc 180
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 tttcagttat tctctgtttt tatcaattcc gtaatgatct gcagaatctt gtcattttca 300
 aggacatct ttggattttc aagctttttt cttaaaactg aatcaatgag aactctcagc 360
 tgcttgaaaa tgacagctat ctttacaggg gcctgaaaat agatccagcc atcaatagaa 420
 agaagacgtt ctcgggctga acttctatat caccaccaa aagtaaaact ggaaaaaggg 480
 gttattaagg gtagttttct tcaaactact ttggcatacc ttaatcttct ccgggattaa 540
 gaancnttcn tga 553

<210> 7444

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7444

agtggagacg gggtttact gtgttagcca ggatgggtctt gatctcctcg tgagccgccc 60
 acctcagcct cccaaagtgc tgggattaca ggcgtgagca accacgcccc gctgtcagac 120
 aaaattttta agaaaacaaa attttttcca gaatattaca ttacaaaaat caatgaataa 180
 atgaactaca ctgtaacttt aatacttatt ccatatgaaa aaccaaactg tttctggcaa 240
 tttgattgat ctcttgagag tctgcagtgc attcattcca tggttaaaac cgtgtgtagg 300
 cattgcgttg ctgctgctgc tgtaatggct gctgggcttg ctgctgttgt aagcgaattt 360
 gctgggaata agggctcttc agggatttta caaatatggg agttctggga ccagtcttcc 420
 atactatacc attggcatct ttcacagaag attccactgn aatgggtgggg ggtncaggga 480
 tagccaaggt caaccgaaat tgagtcctga agnatcatta tganggtcaa cccttgnttc 540
 atntaatggg n 551

<210> 7445

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7445

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 gatgccggcg tctccttcag ccatcaggcc ccagcagtgc cccttgctcc tgtaccact 120
 ctggactctc gccggtaggg agggctgggc tgacagtgcc acgagtggga gaacaggggt 180
 cagggcagga cacagggttg ggatcagggc tgggcacagg atcagggtct gggctgggca 240
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 cagaagattc cacaggagta gggctggggg tggatctgga gccggggaag ggtttggagc 360
 tgggatccgg cagagtgcc ggcccanaac cagggtcagg gttgcggcca aaactgggtgc 420
 cagggtgaa gcccaagcca gaaccagca cagaaaccag atnaggacc cagaangaa 480
 aacttgcccg ggcttatnat ggattcaagg ctttaaggcaa gncccaaggc caancnggg 540
 gcctttttt 549

<210> 7446

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7446

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ccaaatgcaa agtaactgng ttttttattt ctatgaacaa taaaatactt tcataatttc   60
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gattagtatt tatcaacgct tttgtncaca tacncaaata ttttaatata anggtatctg  180
aaatgttatt catatatatt tagtactgtc atagtattaa ctaaaaagga tcttttaaata  240
ttggtaaaaa ccgtatatatt tacaatcttt tatttacatc tgaaatatgc ttaaattgta  300
caaaaacatt cactttaacc tttaaaatat gngtactagg actgggttac tgaccataca  360
ataactgaca gcaaacttag ggtttgcat ttagctacac attcactgga atttcatggc  420
aaatattcaa cctggcttga tcaacactgg tcaaaggaaa aaaaaatttt nccaaatgng  480
ccaaattcaa anggtggcaa aaatcttgaa gcttgccgng ggaaaccaa anttttancc  540
ccctggaaac ct                                                    552

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<210> 7447

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7447

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cctcacatcc aaacagctac agcttcctc cttttgnggg gtccccaac caagtctntt   60
ttcagganag cagacatgng cctccacaca gttctgaagt tctgggggct ccacattgtc  120
agctgggttg ggggtctcca tgtgaggag gctgatggca ctgcaggtt tttgcctcat  180
ctatgcncaa aggctcaaaa aatttcttcg gcatttggga ccctcngtt ctgtagctcc  240
accagtcgct gcacagcctc aggcaagtcc cactcccaa ggcgacgatt atctcgagtc  300
cgaatgttca ctgttctctt actttgctct ttctggccaa ccacaaactg aaaattgtag  360
tgggcaagct gggcccggcg gattctccgg ctgaggggtc aatccaaaag tctgcatcca  420

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ggtcactgac caagtcctgg agccccgaag cttttgntgg gccctttttg gnggaatncc 480
 tttggttact tcccacaggg gttgaccncc acctggaacg gggaaagccc cagggggcat 540
 ttccccccc 549

<210> 7448

<211> 520

<212> DNA

<213> Homo sapiens

<400> 7448

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 agcgtcatca agttttattac acaattttca acctatcaga aagacaaaca aatcacccgac 120
 aacaggggga cgggaccttg gcctttttga gggatgggtg tttttttcc ttttgctatc 180
 aggaaataaa actaaaaatg gtgtcattga gtaaaaacaa aacaaatggg gagaaaaaaa 240
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 gccagttggg tggggtgcc a tgttctgaaa tggaagtggg gattgggggtt gggggacagg 420
 ggaaaaaaag cttccaacct gtagcctntg gncccaaggg aatgngcctt tccaatcctg 480
 cgggggactt ccttaangac tgagggttt nttanaaacn 520

<210> 7449

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7449

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 ctcgagctgc agtgccttcc attccacggc tctgagtctc tttccgctta tctgcaacct 180

cccgttgttt ctggagagca tccttgagac gcttgttggc agctgctgcc tcctccgttt 240
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 tcatcccgna tctcctgggt caantttgga aaacagtacg ctctggggat tccttttagtt 480
 caaaaagtth ggactgggtca attaatgtct tttttaaaac aagcaatttg ganccttcan 540
 nttcctgggg a 551

<210> 7450

<211> 544

<212> DNA

<213> Homo sapiens

<400> 7450

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 ttcccgacga actaatgaag taggtatctt cagtttttctg aggaccaggt ctcaaaaact 180
 caggcttagt tgtccgtcta tcatagaagt cccctggggg ttttccactt actgacctgg 240
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 ttgatcttgn gatgtcgact cttcaggggt tcaaaaattt tgggctggaa ccttgggctt 480
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 ggna 544

<210> 7451

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7451

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gaagagcaca gggaacaggc agccaggacc agcctggccc attccaggcc agctgagctg 120
aaatgctgat tctgtccagg gggctgctgt atgtgtagac tggtagcagt cttggggact 180
gaggcctctt ggagagaagg gaagactgtc ggctcagaag tccatggagc tgtggggccag 240
gtagtccttg cgaccgatgt tgctgacctg cttgggtctgc atagcctcga gtttggggca 300
gtcagtgate cgatgacca gggccccgca gaaggcacag ccgcgctctc ctccaatgtc 360
cagcatggac tcatccccgc aatgcagcac ctgcagcacg gcggaccttc tgcttggttt 420
ctagcaacan cgcttttgag gtccatcagc acttgactca tcacaccttt tgntgattaa 480
aggtaatggc cnatgcctgn gtttccgacg cccggtgcng gcaatccggg gacatagttt 540
taatctc 547

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<210> 7452

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7452

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gaggttttgc tatgctgaat actttattta ttttttatg taaacataat ttgctttata 60
ggcacaatat aacaaaagct ctaaagccac aaagacatta gacaatgttt cagttcactt 120
caatcaagct taaattacag agaagccttc acagttcctt taaggcagac tgagacattc 180
tttacacttc cttcagaaaa aacaatcaag agacaggaaa gaaggtgctt aaaatgagag 240
tacgttaaac aattaacttg cgtcccccg gttctcatgg cagaaattgg tcttattggt 300
caaactctag ttttctcggt ctgtattctg aaagggtttt ctttaaccat ctggagtaat 360
ttgcgattac tggattaact ttgctagtta aataaaacca aaccaaaccc agatttggtta 420
ggggtggtgg gggagaagtg cttttttatg cctctcctct ggacataaca aaggcgatgg 480
tgaattctga atggtgctga gttccactt ccccggggga aggagagcct aatatgggcc 540
anggtcttta cttcttcact ttgggaaaag ncattct 577

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<210> 7453

<211> 335

<212> DNA

<213> Homo sapiens

<400> 7453

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ggttcattc cattttatta cagtcctgtc cttgagttcc anaatgaang gctatttaat   60
acacaacccc aaacactcct aaaanggatc ttgttaacat tcaaaagtct cccatttntt  120
tctcagtata ttaaatacaaa nggaaaaaaaa aatnttaaaa aaaaaaaatc aataggttta  180
gttcacccca ggaaaagcac ctttacaaca ggaaactaaa ttgtcaggaa tntgaccaaa  240
gacncaaagc agcagataan attcccgaca gaananagng actcccactg gaacataaat  300
agatccccc aaagtnata tatttcacat gagng                                335
    
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<210> 7454

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7454

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ataataaagt ctgtttatta cagcaattaa cagagcagcg ttgcccggca tgcttttcag   60
tggaaccag aaaagtgtt actccaggtg catagattcg ggaaaccatg caacttgagc  120
caaaatgaaa ccaattagag gcttagtaaa tgggttccag ccaccccagg aaacttaacc  180
atccacgagt cagttcagcc gaggtagaac ctcagtgcag gaatttagca tgatatagat  240
tgctacttta cagaattaat ccagacctgt cgccagggtt gtggtcttga ggacgtgaaa  300
tgtatccgcc caacacagcc acccaggtgc tgggttcaaa tctcgataaa ctacataggg  360
gtatataggt ggggaacgtt agcaccattg actcttaagg gtctcttgcc actgccatgg  420
angtggggac ataaggagag gactagaagc tgggccnaaa gggacnagac ngagaaagaa  480
ccgaaatcct tcnttaacct ggcttcaaaa nctggantgg aaagtggccg cttgataggg  540
    
```

gtaagaggaa ttcntttinac ctgganaaa

569

<210> 7455

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7455

gttttgagac agggctctggt tctgtcacc c aggttgaaaa gcagtggggc gatctcagct 60
cacagcaacc tccgtctcct gtgctcaaac catcccgcca cctcgacctc ctgagtggct 120
ggaaccacag gcatgtgcca ccacccccag ctgatttttg tatttttttg gtagagacag 180
gatttcacca tgttgcccag gctggctctg aactcctgga cttgagtgat ccaccacct 240
ntgcctccca aagtgtctggg attacaggcg tgagtcattg tgcctggcag ggctagtagt 300
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tgctgcatga gcagccatcg tcctccttgt gtgaacgccg gacatggctg tcatgggcag 420
catgggatgc aaaagattta ccacaggtac ttgcatttga agggcttnn cccanaatgc 480
ttgcctgatg tgtgtncga atatgctgga agcttggaac cttttagtcc aatncncaca 540
ctgggatggg ctggcttcca aagnggac 568

<210> 7456

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7456

ggttattgaa aaaaatagaa cagtccactg tccagcagag gctgcttcaa ctctattgct 60
cgcagggtc attctgcatg gatctgtgtt tcaggatgct gcaaggacaa ctctgcgggc 120
aggaaggccc cttgacccaa cgctgtagca taggtcctgc tctgtggatg gggaaagcca 180
gggggcacat acgtcccat gccgccccct ccaaagactc ctcgctggtg ctgaggcagg 240

gagtggtaat cttccagggtt atcatactgg gacacaacag tcacactgct ctggcgcttg 300
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 agtttgaggc tatgactcct ctctggttta aggggtggga cgattgactg aatgangtgt 420
 tcttcctnct tgnaacaatc tctggaatgg ttctcttggg canaaagctt gctaaccaag 480
 gtcgttcac ttttgganaa ncttactttt tggggtaanc ttaaaaatct tgccggatcn 540
 ncatatttac tccaaagt 558

<210> 7457

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7457

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 aagccctana tccaactgaa ttgccttgg ctggaattct gctgtttcat gagccagcag 120
 ganatttgca agtncattaa cncagttttt aaagtagcac cttcaatata tganagctat 180
 ataaatttaa aaataataaa aaaccaacta atacctattc tgcttagnga cctgtcccta 240
 agngncatac attctttcct cctttgaata tgataccaag gaagaagaat caagcaaaag 300
 gggaaagtaa ttaaaaaaaaa atntntntca aagcctgttt ggtttcatgt ttcagggtct 360
 cctggccaaa attccccaaa gctgtgaaga cngaaaagt gngaactatt tcagaaaagt 420
 gcancagggtt tctgaaggcg cccctacaat ggacttaaaa cttggattac tttccaagan 480
 gaaaggattt ttttccatcc caattggatg aatggngttt ttttaagaaa aaaggatttt 540
 ttaccccaaa ctt 553

<210> 7458

<211> 541

<212> DNA

<213> Homo sapiens

<400> 7458

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caagcctctc cttctcctct gtgtaccgct tcacctcagc ttctgtccga ttcttgccaa 60
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gggtggccac cacggcatcc gggcagctcg gtgggaagga gattctctgc tgttccgtct 180
ggattttgac ggtgggtgatt ctcagggaag gatactctgg ctccaaactc tccagctggt 240
ctcccaggtt ctctggacac tttatgcagg gctcatctgg ggtgggacct gggcctgagt 300
ctgccgggag ggcctcagtt gcatcgacca ggcaggacaa cgtcggggag gaggcctggg 360
cctgtgcact gctggggcca tgcagaaagg acttgacagg tgtgaaggtc caggtacacc 420
cggcaaaatt ctctctcaat tggggcatct gcaacanggg gnggnttcct cggtagggtc 480
aaccgnaact tggaactttt gacaggncca cgtcgncata ccagttcttc ctggcggncc 540
t 541

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<210> 7459

<211> 392

<212> DNA

<213> Homo sapiens

<400> 7459

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aaaaaatgta tttgtgtttt gcaggttgga acgcaaacc agtctggcca cgtcccgtga 60
agttgtggac aaaatgtttc agtttctgtt cacctctgtg cgtgtgtgtg tatgtgttgt 120
gtgcatgtgt gtgtgtgtgg ggggggtggg gatggggtag gtatgtgctt ttggctcatg 180
tttgtgatga taactgaagt cttttgtggg tccgacctgt tgtagggtgt gggggaaagt 240
gaaggaagag aatgaagggt agtccccgcc gttgcaaacc ttcaccaaac cacgcggccc 300
anttttcgtg agtacccttg tgtcccanan aggaggaccc ancgtcctcg gctctgccgn 360
aggccttctt ggtctggngg gtactcnagg ca 392

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<210> 7460

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7460

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gagttgtaat aggatgaatg taattgtaga ataggattgc acaaatacag aagtcattgcc 60
ctaaaggcta cagcaacaaa ttaatacaaa taattctggc agtcttataa aattacatct 120
atctctgtag atatttcact tttgtgtcat caaaaacaca gtttgtaaaa atattttcaa 180
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aaacaaggca cattaaatac atcctcttat tgctctataa atgcatgcag ctcatctctgt 360
gtatcaaaag taataaataa tggccataaa acaccaagac agttataaaa atgacaaccc 420
agcctcaaac atagtattta acagtccagt ctagaacaat aaccaacat gatncataaa 480
agtgccccat ntgaaaacat gccgngggga tatccctcta gcactgggct tacacttgct 540
ntttaaacc tagtagggct ttn 564

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<210> 7461

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7461

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ggaggggaaag gatgcacttt catgtttaac aaaataaatt aaatatacgg ggcttcagct 60
caaactctac ataaaattac agagatctgg ggccaccacg acagtggggt ggggggtggt 120
gtctggcctg gacggggtgt ggtcatcagc atggctgaaa gaccaggcgg gtcccgggcc 180
ccaggagaga ccacagtccc tgcaaccag tcttcttcc atcattatta atattatctt 240
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atgagccact agccatgggc tccagcctct caggcttggg gctgctgtgc ccccaacccc 360
agcccacagc agtaggggac tcctgggcac ccaaggcagg tggcaaaaat agcccgccaa 420
ggccagggga cagaggcggg gatggaggcg gggactgagg cggggacaga ggcggccana 480
gttgggggaa tgacggtgga ncagggaaag nccctcataa ctatgagcct acgggacacg 540

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tacttgaagg cttnacggnc aaccttccaa aagg

574

<210> 7462

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7462

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aacaggagaa aaagcaaaca aatttatttg atcataattg tatgtgagcc ctcagaatga   60
agacccaag atacagggga attgtccatt tttatgttta ggttcaacag attatggact  120
gtgtagaaat atgattggac aagaagggtg tgatctaata gtaatagact gagaggggaa  180
accagcaag gctgtctaga ttcttcttgg cctctctgtg caggattcct tccttctggg  240
cacggggtgg gaccctctct ggaatgggta tcttacgaca gtcaaacacg gtaggtcaga  300
tcatttcttt ccaaccagtt ttacacaga aaggggaatg gggagtgaga ggactatttt  360
taggttttat ggctggcttt gggtaaaacc ggttcttggt tctgatgacc tgccttgggg  420
aagagggatt ctagtttcta tgggtagcct tgggggagaa tgaaaagcca gaaacaagag  480
ggcaggaaaa ggtcagagag aaactttgct tctggggctg cttctgaggc ttccttttaa  540
gntatcagaa atgatcaggg gcattctggc tccagгнаag gctcc                    585
    
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<210> 7463

<211> 435

<212> DNA

<213> Homo sapiens

<400> 7463

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cacttcta at tctttttatt caaattaaaa aaaaaaaaaa aagcaccac atcagttgct   60
atttttctt ggtagctccc tgagctgagt tgctatgctg tcttctaact ttttgcctt  120
tttaggctgt gtccaagat tcagaagagc tggagaggga gttcctttga acttccattg  180
ctcacaacia tgactaagtg tgcaccaaag agaaagacct ggctgaggag gagagaggga  240
    
```

gagaccaaga aagagagaca cagagagggc aagaggcagc cagagtgcaa gagaccacag 300
aaggctccat ttctgcgggt gtccgcctgg acgggcccc atctcagngc cttccatccc 360
tcagtctggc cggttggta tnagnccgga tgcccanacc cgngtggagg cacacgcatt 420
ccagnagcgn cctta 435

<210> 7464

<211> 589

<212> DNA

<213> Homo sapiens

<400> 7464

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aatctggata ccagaaaaac tcagtaggaa acatcaggat cacctagcca gaggttcctt 180
gtgattcttt gcttctctct ctcctcttcc tctcctctgc taaggaactt ctccaggggt 240
acaaatgttc aggatgggag aaggggaagt caggctccctt atctctaggg caaagaggag 300
tgctgtgaca ccacaccca gagacaacia gatgatgtgg aggcacaggc ctgctcaata 360
aatagttccc agaagtctcc acagtgggat taatgggccc agggacgctg aactgcagga 420
gccaccttcc cgaggccagg ctgtggcctg ctcgctacgt gttgcacacc agcacatctg 480
cnaagggtcc aggaggatct tgtgaanatc cacggcccaa ccaggtaggt ggtgaaaggc 540
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<210> 7465

<211> 596

<212> DNA

<213> Homo sapiens

<400> 7465

ccaatttgag atggagtctc actctgtcgc ctaggctgga gtgcagtggc acaatctcgg 60

ctcactgcaa cctctgcctc ccgggttcag gcgaatctcc tgccccagcc tcccagatag 120
ctgggactac aggaatgtgc caccacgccc ggctaattgtt tgtattctta gaagagatgg 180
ggtttcacca tgttgggtag gctggtcgcg aactcctgac ctcaagtgat ccgcccaccc 240
cggcctccca aattgctggg attataggtg taagccactc tgcccagcca aaaagttaat 300
agaaatctta atcaaaatat aaatatacat tcataactgc catctacaat attctgtttt 360
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taaaactgat acatctttac agttgatgca catattagca cattcacaac ataaaaacaa 480
aaatttgan gtnaaagttt gggaagtatt aaggtaagta cccatgttca aaagttaacc 540
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<210> 7466

<211> 593

<212> DNA

<213> Homo sapiens

<400> 7466

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caacctccat ctcccaggct caagcaattc tcctgccttg gccccagag tagctgggat 120
tataagcacc tgccaccatg ccaggtaat ttttgcattg ttagtagaga tggggtttca 180
ccatgttggc caggctggc tcaaactctt gacctcaggt gatttgccc ccttggcctc 240
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agtagagaca gcgtttcacc acgttggcca ggctggcttc gaactcctgg cctcaagcaa 360
tccaccgcc tcagcctcca aaagtgtctg gattacagat gtgagccatg gcaccatgcc 420
aaaaggctat attcctggct ctgngtttcc gagactgntt ttaatccaa cttctctaca 480
tttagattaa aaaatattta ttcattggca tctggaacat aattactgna tcttaagttt 540
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<210> 7467

<211> 591

<212> DNA

<213> Homo sapiens

<400> 7467

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gatttttaaa aagccattta ttttaaaaaa ctggtttgtc aaatcacata catgagcaga 60
tacacaacta ccaaagtggc ctgtaataga caccagtggg gcggtcacca cacagtacct 120
gaaaaatata gctaaaaaag gaggagtctg ttgagtatth aatttcagat ctacttgact 180
ccttgttgaa tggctttaag ttagcatata gtgagtgaga ggtagagtcc caagtataat 240
agctgatgcc tcagggtccc atttaaaaac aaaacaaaaa caaaaccatt tctccctctg 300
cacaaggga gacctacctt tttttttttt cctttgcgaa aacagaagcc aagtttctct 360
tctcaaatgg ttcagcattc ccaatcaaaa agtggigtgt ggtaacctag gtattgtgct 420
tgttgagcca ttttaatttc ctcaccttcc gattcggatt cttcttctgc attttgnaac 480
cactcacaaa ttcttcatct ggncaagaaa aacactttgg cctttacaca tgggcttcct 540
tataccattt aanaatgnnt ctttggttaa aacataagtt tttaaagana c 591

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<210> 7468

<211> 593

<212> DNA

<213> Homo sapiens

<400> 7468

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agtgaaaaga ttatgtatth caaataaaat tatacatgth ggaggcagaa cagaaccagg 60
ggctcttcagc agaggatttc tcagtcagcc ttcacaggcc tcatgctgtg gctggcagat 120
actttccact gagcatagaa agtttcagga taacaagaaa cttgtttttt gcctccatga 180
actgggatgt cattattata gagaagatga ataatttaaa aagtgaagac tattcattca 240
aaatgctaga gtgacaaatt tactttatga aatttaaaaca cagcattcat cctcgggaag 300
ctgcatatac attatggtag tagaaccaga ttaggtacat ttcagcgttg aaaagatttt 360
gtctaaaaat gaaaaggcag ctttcttaaa gaccagagtt atagagtcac tcttgnattt 420
ttcatcttgn tttagtggcc aaagctcaac ttggtttaat nggaccaaag ctcagtaact 480

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cactcagatt agaactataa ttctgtgaag ngtcaggacc ccngaaagtc ctcctgggac 540
 tttctatggg aagtttggcc aaattttccc atgganctgg gccnganggn gac 593

<210> 7469

<211> 586

<212> DNA

<213> Homo sapiens

<400> 7469

canattgtca aaagcaatth aatthtttga ggaactg catacgagc acaacttata 60
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 ttgccagccg ggagaccatg gaagggaact ggcgccactg ccccgagctg cccttcccag 180
 gggcaacttc accaagatgt ggaaatcctg ggcccccccc acagtcagtc atcgctccat 240
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 cccaggctcc aggccagtcg ccccatcaag atcagacgta aggcattctt ccaccgtcgc 360
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 atagggcaca agcactttct gggaccatgt gaccagatc ttctttnggc agttcccact 540
 ggcttgnggn aagggtttt ataaangggg ccactttcan gaacat 586

<210> 7470

<211> 579

<212> DNA

<213> Homo sapiens

<400> 7470

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 gtttttagng tcagcattac tccaaatact actgactagg tcagatgccc actggttagg 120
 aggaccagta tttatagagc cccaaacaga attcccaatg ctggtgtgca ggttggaatg 180

cgtattgtta cgagctctgt ttggttgctg gtgttgctgc tgctgctgct gctgcttttg 240
 catttgcctg gcctcttcct gctggatctc cagaagagat ttcgtggtac ctgaagggtt 300
 gctgacattc ccccaacctg agagtttctg ctgttgctgc tgctgctgct gctgaagagc 360
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 tctagttttt ggatttcagc caacgacagc gtggcctggg actgacatgc tgggtggattg 480
 gactgnnttg cccacggtt gaanaaaaaa ggaactttat ntgggccac ttgtggtgct 540
 gctggtgctg gttgnaacct ccggaagcc tttggtggn 579

<210> 7471

<211> 507

<212> DNA

<213> Homo sapiens

<400> 7471

cacgaatcac ttgtatttta cagatacaca tgcatttaaa atagatgtaa ataaacacaa 60
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 tgatctgccc acctnggcct cccaaagtgc tgggattaca ggcatgagct gctgccccag 420
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<210> 7472

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7472

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tcgcgcacgc gcttgctgct cgcgcgccc ggcccgggcg aacgcgcgct gccgngcctg 480
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<210> 7473

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7473

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agaagacagg aaaacaccag taatggtgaa ggtcttgaga aaaggacagg acccgagat 180
agcgagagat cagaggaggc cctaatttct ttcctcattt ctttccaaa tatcccaaat 240
gtgcaatgca tcacctgaga cagaaggcag aaagcatcaa gctctctgtt tatcccaatt 300
caatgacaac cagaacttat tttttttgan atgggggtctc gttctgtcgc ccaggctgga 360
gtgcagtggg gcattcatgg ctcatcgcag cctccaactc tcagtctcaa gcaaccctcc 420
tacgtcagtg tcctgagtag ctggaactac aggcatgcac caccacactt ggctcatttt 480
taaaaaattt cttgnanaga ccggatcttg ntacattggc cagctttgaa tgncccgggg 540
ggcattacag gttt 554
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<210> 7474

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7474

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acaatcttct ttatctgtca ttttatttct gggctctttt ggctcttcct ttaatattgc  180
ttgtttggtt ttgcttctct tagcttttct tactcctacc ttctacgtgc cttaatgtac  240
ttgtgaccat atctattttc attaagatat aatttagtat tcatatctgt gaagatttat  300
ctttttgttc aaattatttc ccaagttcag tcagttctct tctcatatat gcttgtagct  360
ttttcatttt tattctgagt ttttgaattt ctgactctct gtgttctttt atatccacaa  420
ttatttattt tcaaattcat gttgaaagtg ttttaagttac agtttactgg ttcatgggcc  480
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<210> 7475

<211> 510

<212> DNA

<213> Homo sapiens

<400> 7475

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cctgtcttct aattaaaaaa gacattcctg ggtgacaggc acagtgcagg agtgtgagct   60
atcgaaacaa cctgggtgaag tctcgcangc ccagacaaac ttgtttacat tcctcagcac  120
tagtgacttg cttgtggaag tctgtaagtt gtttgtgtgt cactgtgacg gctcccacgg  180
ttgtttcctt tggcaaacct ttttaaggaat tttctaacca tcgacaaaaa gtcgggtctgt  240
caacctgcat gatctcccag agcacttcag ccacatctgg tagggatatag ggggggaggc  300
aaaagcagca ggtgtgcagc agctggctga caagctgctg tccaagctgg ttcatcacct  360
gtccaatcag ttctttccgt aattcaaagt cttcttcatg atcattggct acccctgtat  420
gaatgaggtc tcgtagaaac ctcatgacac tacaattggg attcccgtgg nccaaggnan  480

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taaaagcnan ggncccctgt aaaaanggggt

510

<210> 7476

<211> 523

<212> DNA

<213> Homo sapiens

<400> 7476

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aggcaggtgg atcacttgag gtcaggagtt cgagaccagt ctagccaaca tgggtgaaacc 180
ctgtgtctac taaaaatacc aaaaaaaact tagccgggtg tggtagcgagg cacctgtaat 240
cccagctact ctggaggctg aggcaagaga atcgccctgaa cctgggagat ggaggttgca 300
gtgagcagag attgngccac tacactccag cctgggcaac agagcaaagc ctcaaacaaa 360
acgaaaacga aacaaaacaa atatagtact tcatttaacc ctttcaagct tggagcctta 420
nactaactga gagggtanac tcaaagccgg ttggctcact cccaaatnca caggacantt 480
tncattatnc accagttaaa ccctttgggg gcttgcttna agn 523

<210> 7477

<211> 482

<212> DNA

<213> Homo sapiens

<400> 7477

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aactacaaaa atatctggct ctcgagtgtg ggcagctcag tgtgggacct ggtctgagtc 120
atgacttggg ctgccctgca ggccagaggc ccgggagctt tccggccact ccccagagag 180
gtccgtggcg ctgaggggggt gagaagtgcc ttggctgctt ccacagcgtg aaggccaagg 240
ctgaggtgga gctgggctgg agtggttcca gagaaggctt catcgaggcc cttcaaggct 300

gatggcagag ccagggtagg gagacgcctg gatgtggctg ccctggctca actggctcct 360
 ggaccaaggc cctaaccac cagttttttt ctccagaacc cctgctggct ctcccatagc 420
 caagtgggtg gagcanancc ctctgaggn tcccagngca nacagacctt cacccaacnc 480
 an 482

<210> 7478

<211> 535

<212> DNA

<213> Homo sapiens

<400> 7478

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 gagaagcaag gctgagggtca ctggaaaggc ttagaatgaa gctgcccttg cctgttcctc 180
 ctgagaaccc agagcggcag tgggtccaggg cacaagcat aatgatctct catgaggatt 240
 cctatctgaa cacatcagaa gtcctatgaa catagatagt tctgttttag aatataaatg 300
 gtagtgactt cctgcgctcc tgaggcgggg caaataatc cataaacaca taatccttct 360
 gggcaataat gtttctggac tcgccagcag agggctctag gaacagaggt gggggtagaa 420
 gtcggggaga aaaaagggtc tagagatggc atgtcttcag gggaactttg agaaatgncc 480
 cttggtcnac atttctaant gaccggaccc gngaaccnng gctgnaatgg catta 535

<210> 7479

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7479

aaatagaagg tgagtttatt tctccagtct tgaaattaac aattttcgag aaaacaaatt 60
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aagaggacaa gggtagaaag gagacaagcc ctctaagaaa ctgtccattc agtctgtctg 180
 cagtcaatat gaagagatag cctttggagc tacagaaaat attacattga agtggattat 240
 gcttgctgtt aaagaagctg gtccagccga gcagcagcag aagacgaaga ctcaaattgc 300
 catgtagagc atcatgggtcc ctgaccaaag agacttcttc tggttcctct tgctctcctc 360
 accaagagca cagatgtgcc cagcagcaat atgacagcaa atgtctctat ggcttcggga 420
 tgaaaatgtc cacacacttt aagacccgag aagaaatggg gagtgtcca cacccaanga 480
 actgaagctn gggaaagacc ggtttcttgg ggttctggca tanaagngga ctggtgctna 540
 anccactggg ctnttcca 558

<210> 7480

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7480

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 gggccagcag taccatcagc cctggccctt aggccagccc agtccacggg ctctgagtgt 180
 ggaggctgcg tagcaccagg aagcggctct gctgagggtca aggggcccc gcacagtgtg 240
 gcatccgttc agcttttggg tggaccagga tgggtggggag cacagagggt cttggacggg 300
 taggtggggc acacggaggg aaaaattata cgccttcagc tggcagtcag ggcctcagga 360
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 tgaggctgaa gttgggtccag ttcacagcaa ctttctgacg agtctgcttt gcagaatcca 480
 aacagaacct tttaaagtac ttcaccttn ggcaggctta ttcattttca cccgnncatg 540
 gncntgg 547

<210> 7481

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7481

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ctaaagaagt tatcactgac tgcaaccaa cattttgttc cattcaacat acatatcaag 60
ctccttttga gatatgctag gctgaatctt gcagaaagca ttttcaaagt cttgatatgt 120
aacgggcctc aactggctgg gcataatggc tgaaaggctt gtggctggca tggcatggag 180
ggggcccacc actgcttcct gacacaaatg agccacatct agtccagaaa agccttctgt 240
gcgctggacg agcagtgcaa actccttgct attgagacag taattgtgct gtgagagcag 300
ttgtactatt atctggtgcc tcgctgtgct gtcaggaagt gggattaaaa gtcgtttcat 360
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gatttgggcc tcagcccga gttagtagcag tgtccagttg catcagaaat tcggtctcat 480
ccgactgact ggctatggc ctcantcctt gaganganag aacctggcaa tggccttacc 540
aaaatcnccg nggntgg 557

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<210> 7482

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7482

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ggaggatcag gtttaatggt cactatgagg gtatcgtaca tcgttccaag cccggccccc 60
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aagggggggc tgccccctcg cccagctat atacacgaca gcccatcctg ctggccgtgg 180
acaaaagctg ggagctcctg tgcccagtc gagagccccta cagtccacca gctgcgcggc 240
cggttccagg ggccactgt ggtgccagcg agtttctcaa aaccagggc ccagccccag 300
ctgggcccct gccaaagccc aggccttgt gctgggatgg agcctccaca ctgaggctgg 360
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aggccccacc cagagccttc tctgaaggag gggacgctgn gccctttctt tctgntgcca 480
nantggccta acgggttccg cgccggttga ggctaagtaa gcanggattg ggggtggcaa 540

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aaagaat

547

<210> 7483

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7483

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acacattaat gggtgctctt taaaagttag aatctcaaga gataccaaaa gcacttaaga 120
gttaccacca cttttgccc aagtcttaag gaaagttctg aaacttagtg gtggtgtgtt 180
tgtactcagc aagctccaga cagtctgagt tgctcattcc atgaacagaa gcttgaaaat 240
gcccttacag ttgagatata aacgagggaa gaggtgaagc tttcaggaag ccagagagcc 300
cctgccggtc aggtttcctg aggaaggcag ggggtgctcta tgctcatcag tcattcaagc 360
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atcccaggaa gttaaagccc aaccagccaa ccaccttnac atccttctca tctagtagag 480
tcattcaaaa ccgcaagngg ngcttttgag gcancttagg aaggcnttng ggggctttct 540
aaaggggan 549
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<210> 7484

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7484

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catcaaaaat agtagagacg tctttccac gatgacctgt gatggtggag atatcttttc 60
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cttcatcaaa ctcacaaat ctgtagctta tacatttctt tgttcttggt gacctccttt 180
caagcaagtt tgctttggat ttttttgaat ctttttctt ttcttcttga tcttcanaaa 240
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agtcctggctc ttgtggagga atgatgtttt caatactgat accaacatac accaagcggt 300
 cttttcttcg ttcggcacgc tctttcttct ttaaggcaac atccaaatcc tgcaactgtt 360
 cctctaattt ttcacagagc agtttatgtt ggcaagggtg gcagaacat tctccatctg 420
 ggatgatcat cagaggaggg cgaaggcagg cagtatggta tccactatcg caagagtcac 480
 ncngaagaat tagctcagga tggtttgaa aggcncattt tttgcatggg tcaacatatc 540
 tgctangatg gggt 554

<210> 7485

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7485

ctaaaattga ataaagattt tattatacca cacacacaaa aagcaatcgg tacagaaaag 60
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 tttcaaagca accaccacga caaaggaagc atctaattag tccgttttct tctgatccaa 180
 gaatgctgaa catttactgt cccatctgta gttgtatcag cagtgtaatg aacacagttt 240
 atattactta actattcttt gaactccaag aactgttgaa gtcttttctg atgttctgca 300
 gatgcttgca cagcattcag atgttcacca aatgtagtag ttattcgata gatggcagtt 360
 ttcagtgatg ctctgaatgc aaatcttaat gttttatatg aagtgtccac aaggcttcct 420
 gaaatccggg gtggtttact ggaagcatga ggaagcttaa aggacttgnc gactggctnt 480
 tgcagtggca acaaagtntt aagggtagct ggnaanggcc gctggacact tccaaattat 540
 ccnctgnaaa ggagc 555

<210> 7486

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7486

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agtactcaaa caacttttatt tcactagcca tgagcaaaaa gttgaccggc tccaggggat   60
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acttggcagt gcctggcttt gtgcaccac atggttttgg cctgggtccc agtgaaaatg  180
gtcctcacct ggctggggaa catggttctg agaggcccct tgatctgccc tggggacatg  240
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ggcagctcct agcatggaga catccttcat ggaagtgagc tttcccaccc acctccatac  360
ccacatttct cagaaacaga gttaacaggg aaccaagagt caagaagcca cagggtgtgt  420
aacgtgccta cagccaaatc tgtgaccatt acctgaaaag caggacaacc aaaagtaatc  480
aggaaagggg gaanatgtgg gctggaatga nattggacca ggagaanacn gaattaaggc  540
cggaaaacng aaacccccca                                     559

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<210> 7487

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7487

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aatttaccct ttttattttt tacatattct cctggttatt tttactgcc aatccattat   60
gttgacaggc caatcathtt aaaatatatt ccaaaatgca atcatgaaa ataaaaatat  120
gtcattgaat gagaacttct ttgtgggcca tctcccgcta cactgactga gaactgactg  180
ttgcaattgc ttctgaggaa gtatatgata ttgggatctg gcggacacat ccctgggagg  240
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gtaaaacatg acttcatttg gccttggtga tgcagcagta tctctttaac attaagtatg  420
cttctgctcc tattaatcca ggacaattaa agaaagcatc aagtttgcaa tactangnct  480
tttaaattct gncgaatcaa agtcttttgc ttactaaagn acttaagaaa gtgaagctat  540
taaaagccct acccag                                     556

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<210> 7488

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7488

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acattaccag tcaagtatat acaaaattga agtatgccat tcaagccaga ttgtgatttt 180
aaaataacaa acctctaaat agctaagtaa tgtacaatgt gtaaaattcc aattaaacac 240
aggtataaat cttatataaa tattggccct ataataccga gcgatattta caagcaaaca 300
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caaatgcacg tectgcattt ctatacacia aatgtatttg gaacccttta aatgtgggcc 480
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tgccccccna aatcn 555
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<210> 7489

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7489

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ctttttttt tttcatcttt ttgagaattt tattcacttc aaaacaaatt caacacacct 60
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tgcacagcgc gcttcccagc gtcggaaaca ctgctctcag ggcggggcac agcgggaagg 180
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gtttctgagg caacgaatca ctggcacgga agcttttccct ggcgcggttc cagagaacca 360
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tgcaactac aatgtccctc accagaattc aacgtggcag agtccctgca tctgctccct 420
gcctggcctg ggctcccaca tccacagaag ggccacaagc cgggagcttt cggagtcacc 480
gnacaagagt ctgntctttg ctctgggctc ttaatccaca agtcccttca agtacggaac 540
ttgaaggcca agganccct 559

<210> 7490

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7490

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gtctacagag ccctgggagg tgacggtgag gatggtccca agaggcgcag ctagggtcac 180
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gttggcgtgc aacancggcg ccacgcgggt cactggttg cactgcggct tgtangcttc 480
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aancnc 546

<210> 7491

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7491

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tccaatcagg caacacagac tccgagctgc ttttggtttt ggtccctgga ggtgtatatg 120
 acaagttgac agaaacaaaa aggtgaagac cctgctccac ccagtataga gtcctctttt 180
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 caaagtggaa aagtcctgct aatcaaaatg gaattgtgaa ttaaagtagg ccactggcctt 360
 aagtatcagg tagaaaatca acagcttatt ttttctgctc aagtttgtgc taacactgat 420
 ggnctttttg aggaatgctg agtatgccaa gggtagaact ttcgtaccta ngtaggtacc 480
 aatctcttaa gaaaatccag gttctggctg ggcctaactg cattgagacc cttggcatgn 540
 gtnacc 546

<210> 7492

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7492

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 acttaaaaga atacaacttg aacaggactg ttttactaaa atggtcttgt tgcaaaataa 180
 taacaaatac cacagagagc cctacatgag aaagccatgt gccttcaagc ctggggatga 240
 ggactctagt tctcaaattc ttagaacata gcacatgatt ctccaggga gagaggctgg 300
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 cacacatgga atgaggccac caagcaagtc acaccgccc ctgttcccat gaacccata 420
 agagagaagt gctctctgaa gtctacagac ttggcaggga ccactggacc atggatagct 480
 taaagacagt antttgnggc catgacntaa aacttcagaa tntgggccta cagttccctt 540
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<210> 7493

<211> 530

<212> DNA

<213> Homo sapiens

<400> 7493

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gatgctcact aattgcgggt atgttttctg ttaagggtag ttgtncacgc tcattctcta  180
aagtttcgtt tagtttttca tctgctgtt gcctgngttt tccaatatg aaataaaang  240
gggttgtggg aagactttct tctgctagca gctgtttgct tgttggtgtg agtttttctt  300
ctggagactt tgtactgaat gtcaataaac tctgngattt tgtaggaag taaaactggg  360
atctatttag ccactggtaa gcttctgagg tgaaggattc agggacatnt cgnggaacaa  420
acactcccca ctggactttc tcttgagan cccttttgaa atncaagggc cttggctcac  480
taggttnaaa tccaaccagt ttganccct ggaaactgnn agatgccct   530
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<210> 7494

<211> 538

<212> DNA

<213> Homo sapiens

<400> 7494

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aggacaagga agacaagctc ctctggccct aggaacaaaa cacatttact cttcaaaga  180
agcagatgat ctgaataccc tctggagact gaatctgccc atacagcccc tggagccaat  240
gggcagacag tactggcatc tggcacaaaa gggaattcag acccagaaca gaagcagcaa  300
aatattttta aaatagtaaa ttgttcctgg actcacaat cattgttttt aagggaaggt  360
gcatgcccac tataagtact ggggcttcct aagagagctg cataggatta cacagctgcc  420
tctgcttaa tggaggnccct acatcccttt gacacttaac ttgggtagga anaggagcct  480
tttggctctg tctgggttct ganagctntg canctggagg cncagnaaac tgaggttg   538
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<210> 7495

<211> 544

<212> DNA

<213> Homo sapiens

<400> 7495

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aggcaggcag aggggaggca ggaggccaca gagcagccgg cccacagtg agcacagcaa 180
gtgtcctggg ccacctcctt gagtcttcag ttcccttcct agcacctgca gtccagctgc 240
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caacgtggcg ggccctagag gatgctagcc agctctgtgg agtctgtttc tgagcagcca 360
gagctgctgg cctcgtccct cagtgcctgc agggccttct tattctgccg ccgcctctcc 420
tcatcaatgg ggtacatttt gaagagcagc agggccagca ggatgagaac tatgggagcc 480
atggtcacga gcatgttcag ngnaaacttg aacgtttccg nttgnaacan nccccggtct 540
ngga 544

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<210> 7496

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7496

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agatttcgtg ccagagaaaag tctcagcatt tccaccttgg tggctcttat gtcacatcc 180
tgagctgct cggtatcaga ttctccatgc acaggtcttc ttgacgtcaa gtcctccaga 240
caccgcatca actcataagt ctgttctgct gagaaaatca cctgtttctg ttccaaaagg 300

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ggcaaggcat ctgtcagcag agtcatccag aaagaccgag gggcaatccg agacgtcatc 360
aaggacagaa ggagagaagc tgcgtcggca aaacgcttct ccccgtagat acggtggaac 420
tcgcgatact ttcccaggaa tgtcagtcgg tcatgagca tcatggctgg cccaggttg 480
ncaatgagat ccaaatacaga aaagcagcct ngcttacagn aatcctgang gacctgtctg 540
acacggcgt 549

<210> 7497

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7497

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cgggtggcag ccataatccc caaagatggc cccaccccca agattccaaa gaagctagtg 180
gtggtggaag caaaaggaat gcagcaaggt cagggtttca ttgtccaagc cggcctgaca 240
cctgccgccc tgcccttgcc cagtgcacac cctagaccct gggccggcct ccatgcagct 300
ggaggccaga agacagcaac ccatagcttt gcaccctcct ccatgcccc a tggcctgcct 360
gcccagaaag atgccacctt cacagagcca gtgctgtcgt ctatatcatt tttgattagt 420
tgattttata agataaaagt aattttaata aagaaaaaat tcaacattga aggcttaaac 480
gttctttggg gtactgggaa agggaaattt ccactttttt ctcccacctt cctggnatta 540
aangtccggg gggggng 557

<210> 7498

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7498

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 acaatgtgct ttaaccgagt gagcaccttc cccitcatct caggtgatgt ttcctggcag 180
 aaggcattta caatctctcg gaaccagttg agagtaagaa atatgagaga acacatgaat 240
 gaacgctctt tagcagacat ggactccaac ttctctccag gctccaggtc agttaggaat 300
 ataggacaat ctagtagacc atcaatctcc tccaagtttc cgttatgctg tctctccaca 360
 caaagtctca gtaaccggaa atacggagcc aggacagcg gagacaccaa tttttggcct 420
 gattcctgng aggtcaccgg acccccatct ttgcaaagt cctgagaaaa cagcagcggc 480
 aggaaggntt atggcaatcc catcctgagg gcggattctt ccagtccgac aaggggnttc 540
 caaggaatgg aaagn 555

<210> 7499

<211> 395

<212> DNA

<213> Homo sapiens

<400> 7499

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 tcaaatgctc taataaatac atatataaca aaagtgaaaa aagtaactat agtgagatga 180
 ggttcttcca aaaaaattct gtcttgtaa gcattctagg agtctgagcc aaagaaacag 240
 cgccattttg ttcattcctc cccctgccc cggacacttc ctttgagcca cctctatacc 300
 cagctaactc tggatttccc tctaggaag gttctgnatc agccctggga ctngccagng 360
 cctnagtaaa cagacgggct ntgttaaaaa gntaa 395

<210> 7500

<211> 519

<212> DNA

<213> Homo sapiens

<400> 7500

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acatttccaa ggtcttttaca ataagttata gcgtccaggT ccaacacagc atatttgcat 180
acaaagccac tgatgtgaac actgaaagga atctgtcctg taggtctttc atcttgattt 240
aataaagttt gtncagtatc aaataatatc aaaagtctaa aaaacacaat gagcttttat 300
gtttataaat tatngTTTT ataccataaa aaaagtcaaa agtgcagttt aaaaaaaagt 360
ggaagttggt attcttgata aaagctagaa aaatgtcatg tcccagttaa aaagcaatct 420
caaggntcat cccatttcta aggaanttta cctggnatnt aacccttggg taccatatgc 480
tggaagccaa anccaccgaa tgggagcttt gnacaatnt 519
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<210> 7501

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7501

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cacatcagtg acagtttatt tctcaaagaa aaaaagagat aacatttgaa taaaaatgca 60
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gaattctttc acaaagaaca gatccacagc caatttcagt cacttgtgat gctgaatcag 180
caccactgg tagcaaccag gatccttctg tacagtcacg ggcttgagca ggtgccataa 240
agcatctggt taagttaaac agtcaataat gtttactgac tgcagtacat tcccaccccc 300
caaaaaaata agtgcaaaat caacttctaa gctcaagagc tcaaacaagt caaagctttg 360
gtatatactg gaggttggtt tggtgataac caaagcctag taagattctc tgctcanggg 420
gttcgcccc aaaagaaaaa cacctggtnC acaaagctta accccttttt aaataaggna 480
ctgtccaagg agaccaagnc ntggattccc ttaaccaagg gttatggttc ctaggcanaa 540
gtttgaagcc ccacttaaac ccn 563
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<210> 7502

<211> 536

<212> DNA

<213> Homo sapiens

<400> 7502

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actgagcatg gaatactttt aatctctgcc attaatatc atttccagct gcttataata 60
gcagcgcctc atggccaaat cattagagtt ttacatctgg gttgcaaag acactttgat 120
tggatgtaat gttcaaagtg ccttccccac ggcgtctccg gcaagccttc tgcggagagg 180
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tctggaagaa gaacttctga gggcactgtg agcagtcgta gatcttgctc tctgcccgt 300
gcacggcaaa gatgtgctgc tgcaacttgt tggcctggac gaagactgtg aaacacacgg 360
ggcatttgaa ggtgcccgcc catgccctcg aactgtgctc aatgaggtga cagaagagct 420
tggcccgggg aagtcgaaca tctgggtgca caagttacac tcgnggggtga atgccttcct 480
aaacatgggg gtttgcaacc gnggantng atctctntnt tggcttcna aggcatt 536

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<210> 7503

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7503

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gaacagaatc atattcaata tttatttaaa aagaaaaaag agaagctaaa tgtgctggtt 60
aattttttgt tggcttactt gttggtctgt gatcggtgtt gtcaggcagc tgcactccca 120
tgctttgtaa aagattggaa gcaggtcctg ccagtcagc ttgggagcta taggattcca 180
atatatttga aaccagggtc aggtctacat ctactgggtg cataacagat tctcccgtac 240
cagaatcttc ctcatctgaa ttgttatcgg tagtctggga tacaggttcc acttggttcc 300
tagtggtgaa acttttgctg atgcaggtgt gtgctagttc ctggtccatc tgggccatgt 360
atgacttgag attatcaagt gttccttca gggaagcctc ttcgccaggt tcgtgtgttt 420

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caaaagtcca agcatcatca ctatctaaac attcaaagnc ttcacatcc agatcatcag 480
aatctgactc attaggcctt ggnccataaaa cttatcaaaa taattangaa aaaaatctgc 540
ttcaaanggg atnggg 556

<210> 7504

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7504

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caaagccatc ctggcctgcg ggttgacaa gcttgatcta aagcttttcc caagttcctc 120
acagtattag tttcctaggg ttgctgtaca aaataacaga ctgaatgatt taaccaagag 180
aaatttattg cctcacagtt ctggagcctg gaagtgcatt atcaagggtg agacagggtt 240
ggtttcctct ggaggccata atgaaagcat ctgttcagg tctctgtcct tggctttag 300
atggccatct tctggtggat ccacacagtc ttctccatgt gtatccttcc ttcagtttcc 360
cttatagga caccagtgat gtcagattag gggatcgaac ccaacaacct cattttgaag 420
ttactcacct ggttggaac cctatgtcca aatacagtta tagtggtgaa gaactaggac 480
ntaaggctta ccaaattatt gagtggggca tnatccana ccattccatt tnaaattgca 540
ngggttttct tcaangngaa gtcac 565

<210> 7505

<211> 491

<212> DNA

<213> Homo sapiens

<400> 7505

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ccccctaac ctaagcaagt ggagctgcca ctacctaatt tatctattgt tttgctaaga 120

ggtagataaa acaaaagtga aatggggctt ctatgaggag gtccattaga ggggtgggtgg 180
 ggaggggctg ggatcgccca gtggaactcc cccaactaca aagacggcct gaatgagtcc 240
 aaggaccgcg ccctcagact cccccagggc aaaggatcct gcttcacctc ttctccttct 300
 agagccaact gggcccccat tgaagactga aaaagggccc aatggaggtg taggatctca 360
 aagaaaccct gttgaagagg tctcagctct ggtttcccca ggcttcctga ctttggggct 420
 gngtggnggg ttncaggcca agccccaagg ctnacttcca accagcccct ntanaaggga 480
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<210> 7506

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7506

caaaggaatc atcctatctt tattctcaga aatccaatgt tgaatcac agttcttctt 60
 taatggaagc agaagattca gaggccttgt ctcccaaat gcctcagcca gggtcagcac 120
 agagagtgga atataaaaag cttaattgtg ttaatacatg gaagacaaca gttctcagtc 180
 aacctagcca caattttctg tcttggccat ctgtaagaaa tgactacgtt tgaaattcaa 240
 ctttcacatt caaaaaaaag aaatcaattc agcttcagac acaaagcaaa accaaaacaa 300
 aaaaacaaat ggcaatagtc tacatatcta aacacttgac aattggggaa ctgtcccaca 360
 gtgatatgct caaggccagt agcacctatt tataatttgg catgtactgc ttgaaggggc 420
 aacaggaccc ggagctaaaa tattcaatta taaagatata atacatgat gaatcagaca 480
 aaagtagaca tttatgatnc ccnttaagg attctttttn gnactgggct gactttaaga 540
 aaatattttg ggaccttaa 559

<210> 7507

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7507

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aacagttctc tgnittattg caatacagca aagtctgggt aatattaagn gatatacaaca 60
taaagtattg gtgaggagtc ttttngaca ttttttacca tcccacctta aatatttctg 120
ngcaaaaanaa tccacatcat tgtttggttag cagaggatct cttataaagt tccctaanac 180
actgaggggca taaaacccaaa caaaataaaa taaggagtga taggctaaag cagtatcttc 240
ccctccatcc acatttgnca gcattatatt ctaacccaaa aatgatcaca ccaggccatg 300
caaaactgnc aatattacaa cgagaaaaac cctaaaaaat ttataaaatg aatgatatta 360
cactatcaaa taaaaagaca agtcattttg ntttcatgag atttcaaggg tgatttgagt 420
cagcttnccc cggaactggc acggngtcct gtgtggggga ngggcccaac gtgcttgcan 480
tgctgggggg caaggcttac actccttatn ttgccaaagg cccaaagaaa tntggacttg 540
gtaaca 546

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<210> 7508

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7508

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gagatggagt ttcacacttg ttgccaggc tggagtgcaa tggcgtgatc ttggctcact 60
gcaacctccg cctcccaggt tcaaccgatt cttctgcctc agcctcctga gtagctggga 120
ttacaggcat gcgccaccac gcccatctaa ttttgtatit ttagtagaga cagggtttct 180
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ggctcttttt ataaaggcac taatcccatt catgagggtc ctgttgtctg acctaatgac 360
ctccaaggc cccacctcct aataccatca ccttgggggt taggatgtca gcatatgaat 420
tctagggggg cctaagcatt tacaccatag caagggccct gggctctatc tgaaangcag 480
aaggagcant gggcccttag gcaacctntt aatggaaaga ccttctgaga agaacttgga 540
aataaggatg 550

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<210> 7509

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7509

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gcatttgttt ctttatttaa aaaaatcatc tgggggcatg gtctgaggag gacacccctc   60
ccatggcttt ggggaggacg caggttccag gagtcacagg gcagaaacac gcgggggtggg  120
tgggggCgtg gccggagtgg ggaggggctg tgccccagc acctgggggt ggctcccacg  180
gcaccagggtg ggctagggca acagtatgta caggcgagca gtgctcctgg acccggtcgg  240
ggccggcttg ggccccattc tgcggcaggg gagctctggg gcacagggtc tgagtcccat  300
cttgggctgc agggaccgcg agggccgtcc agggaggctg gacagcgggg gcctttatct  360
gggccccatca ggtggatgag aacggacact gcaaaccgct caccacctgg gccagggcta  420
ggcctatccg gcaggggccc tccccacact gaatcctgcg tgcgcagaac ttaagccggc  480
attcaagcan tggggaacgc cccgcaagct tggctttggt ggnctcggca cntnacaagt  540
ggggcccttt tctaa                                                    555
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<210> 7510

<211> 557

<212> DNA

<213> Homo. sapiens

<400> 7510

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acagctccat gtgctgggca aaatctcatt gactctttct tcaacttaagg agagccatcc  180
attgtgtggc acagaaagaa atgtttaaac ttccattgta attaaaaaat atcaagtgtc  240
cttggctgag tttcagaagt gtcagctgct tccatgacgt tggaaacacc cggggccttg  300
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aaatgggtga tgtcctatca cactaaacat tgattggagt ggtagagatc ttaaagcagt 360
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 ctggaaaaca ccaacgataa gggctctgccg ggatgggatg actgcctttt tgcatttttg 480
 gcttaagtca agtgggacaa aaacattctg gncctggaact ttcttctctc tctctttcct 540
 ctctcttnc tctctt 557

<210> 7511

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7511

aaaaaagtag ggtttattga ctcttatgca ttgttaaatt agagggtaga aagacagagc 60
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 gcagccgtct tgttgatgtc ccctatgtca tccagagggc aggagcgggc agctctctac 180
 cttggcaact ggttctctc tctccagctt catcttttcc attgtttttt gtttgtttgc 240
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 aattgggaag ggtctgtgag aaaatctgag gagcttcctg cctccccag atctccctca 420
 caagactgnc tctctcaggg ttgcttgtga gaatcattta ngaactgctg cagtggtttt 480
 gatgtttctg aacccttccc anaaaggccc agaagttggn aattgaacca ngaagtccaa 540
 ggaaagaccc cnaatctt 558

<210> 7512

<211> 541

<212> DNA

<213> Homo sapiens

<400> 7512

canatttgac agttttaatca gaaaaatgga atgatagaaa tgaagcanac tccccaccta 60
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 gatggaacag cgtanaggcc atccgtttcc aggccattct ganatccaag atgccaactc 180
 cttgtttcta tgaaacttca cgggatgtgc cagtcanaaa tggcatgctg aacattctgc 240
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 cctgngatgg ctcttctggt atccatatct tatacncaac acctatccgt aggaagaact 360
 tccgcanaac tgctcggagc tcagggatca ggtcaaaactg cataatttca cacaagtagg 420
 ggtagtacat tgaagcatgt gctttgaact ttcattcatta atttganggg tttagttana 480
 agtaccaccn gaaactttgg ccaggcctcc cgaaggntnt tanaattccc ggggtgnaaa 540
 a 541

<210> 7513

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7513

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 tagtacattt ccccgctgat aacagcgcca tcttccttcg acccccanac caagggatca 120
 aagctactgc tcaatcgagt ttgacatcag ctaccgactt ttaaggaatc tanaacaaag 180
 ttctggagcc aggccanaag nggtaaaaga ttcagtttagc cccttcctct gtgctgtgct 240
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 tcagctgagg gtggggtagt gtgatttcag cagngtctcc acctccctga cccctgcgct 360
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 gcctggtggc cacagacaag acacacggat atccgtgaac cttgctgtgg ccctnccgag 480
 gccagngcc aactggtgga cagccaagcc ggacaattnt gtntgggccn aaattgttaa 540

<210> 7514.

<211> 544

<212> DNA

<213> Homo sapiens

<400> 7514

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gtaatcaagc catttggtga aaatctgtaa ttcacaagtc aaataacaca gaacagagac   60
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tgctgatctg ttggcttctc agtttatagc attcagcccc ctggctcctc agcagctcct  180
tctcttcggc tgtgtctcga gctttcagct gcgagaagtg ggcaggagag gcgatgagat  240
catattgttg gtccagatac cgcaggtaga tgagcatgtg cagggcatag gccaacacca  300
gcagcaggat cagggacatt gccaggccga tcagaaaagc tggcgagaag gaggaggcgc  360
agtcttgggc ttttgtaa at cgtccccct tgatggcaaa accttgatc tggaatcaa  420
taaaagtac ctccacagg ctgacccat catccgtgtc gctgggcanc aagangcct  480
ggtcctgctg cangttgcc caccgttgc aaccggtagg aagtaaccng anggagcctt  540
ntnc                                                                    544

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<210> 7515

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7515

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tggatagatg atttaagcct caaaaacgca agtgattttt tggggtgcac gcagganagg  180
gcggatctgg ggtgtggtca gcagatgacc agccgtggcc ttgaaggcag tttccagtct  240
ctgcagctgc gggatgaggg tgaagcccc catttgctct gctcagcctc tctgttgagt  300
atttaagaaa tcttgattct ccgtgttctg ccaggaggga tactgcagaa gagtggactg  360
gtgtggccat tatttcagca tcttcacat gtacgggcct tgtaatctgt acccgatctt  420
tctataataa ttcctgggtgc cgaccctga ttcacaagc gantttcca gaccatgggt  480

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cttctctagc tattctttct gnttctcat taacagcatg nnaatcctg agcttgaaat 540
taataggatc ccggctg 557

<210> 7516

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7516

gtatggaata ataatttaat gtcactgtg gccctgactg aaagtcaagc tcaggcacaa 60
ttagggccat ggctgggctc ccaccaatga ggatacaggc aggcaaggag gttggatgtg 120
gtggtgtggg atacaggaga agggcaaagg gagctcataa atagggccca gcctggctct 180
gggttcaaag gtggagggtc caggatggca caggctgtga gggctaggca gctgaggagg 240
tagtaetcgt attggcccc ttctcccagt cctctacaga cacgatgggtg gttttgcaga 300
agaagcagtc ctgtttgttc atcagggtgct gggttgataca ggctttgcag gacttgtggc 360
cacagggtg gaacacagca nagatggggt ggcatagcag atggggcaaa ggtcctnctc 420
actggtgggc anggaagcaa ctgcttgctt gggcanatgc anaggtaag tgccccagca 480
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accctttccg gcaagggtt gcaaa 565

<210> 7517

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7517

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aaaacaaaaa gtagaaattt taaactttgt tatagcttta aaacattaac gtctgataca 180

attagaaatc acattcagat ctcaaactct taaaaaaaag tatggctcct taaaaaaata 240
 ctgnatccca cttgaaatga aaacacaggt cgcctgctgt tgacatgggt ggggctgtcc 300
 cttcctctgg tgtcgtgctg gccccctccc ggtgctgggg tgcagccaca ccccccgcc 360
 gggcgccac cttcactcct ccagggtgag acacgcaagg tgacatgacc agaacttcac 420
 atccaatgct ctagaactga catctccact tcataggaca ctgntgcttt ttaaagcact 480
 gattatcaaa catgttggga aaaatcttta gacaggcgcc ctggtaaaaa aaaaatcccc 540
 ccncccccn cncncnc 557

<210> 7518

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7518

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 ggattcagct cgtctcgggg cgganccagg cgtcacggcc tccggattaa agtatcccc 180
 cggggagtgt gctctgtgaa tctgggtggg gagggcgctc ggtgctgttc ccagcaaccc 240
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 ctganaagct ggaggctgaa gccagacacc agcctntcag gacttgggga cactatgagc 360
 ccactcagcc ccacaggtct gaatctttgg ggaggggagg gttccagtct ggactntgcc 420
 cttgaccatn agggcagggg gatcacactg gctatcgga tnatctttta gccagttttt 480
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 attttt 546

<210> 7519

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7519

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cgcatcagca tccttgctgc tgccgatgct ggaatggcta gtgatgctgt tgaggcttga   60
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attaagggtc ccctgaatga ctgcctgggc ctcanagttc tttttcttca naaagtctat  180
ggtttctcgc aaatccagca gctcagtgtc cttctcctcg gccgtctctg ccagggtgtcg  240
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cttccggatt tgtgaggagt aggtggagga ggcactggag gccagggaca gcactgagcc  420
cgtgaacatc gtccgngggg tctcgggaagg atcctgaccg aatcattccc ttgggtctct  480
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ngggatcttn tggaacc                                     557

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<210> 7520

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7520

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agcagtcaat tacggcacct tgtgtttatt ggaaatattc cacctacaga acattaagat   60
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ggtgggtgga tcacgaggtc aggagatcga gaccatcctg gctaacacgg tcaaacccca  180
tctctactaa aaatacaaag aattagccag gcgtggtagt gggcctgtgt agtcccagct  240
actagggagg ctgaggctgg cctggagggt gcagttagcc aaggtcacgc cacttcactc  300
cagcctgggc aacaagagtg aaactccgtc taaaacaaac aaaaaaaaag acttcacca  360
actaactgtg cttgtgtaga aagaggttgc atccctgttc cagtcatggc catgaggaac  420
agctatgaga anggccctaa gcacagcatg gtttgcagta aggaggcana cccagggaga  480
aagaagtnaa catcatcttc tgggctttgg ttcaaaatca caaggngtgg gccttaancc  540
tgttgcttgc caagtct                                     557

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<210> 7521

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7521

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cttgaacatc aaagatgttt gttattgcag ccaggagaca atgccataaa atgctaacaa   60
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ttggaagaaa ggcaccagat aagtccaaaa tcttattgct actaggatca tacagggtca  180
cagactatgg cactctgttc agccaggaga ctaagtctca gcaagtcagt ctctgacctt  240
gaggcttaaa gagcaaggaa ggaaaatgtc aataaaacag agccctgtat cacagattaa  300
actggagtga aaatgatttc cagttttatg tcaaagtaga agctggttcc taggacgctg  360
gcgctatfff agatggcact ctgntttctt tggcccatc ttcatgatcc ggatcatgna  420
ttctacttgg gnggtacctg ggcttctcaa gtaaattggag cacttttcga anggtctctt  480
tgggtctctn ccactntgat catctggaaa atgccccaca ggcaccccg tngccttncc  540
aaaatcaggg ttaggatcca ncctttna                                     568

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<210> 7522

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7522

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aacatcagaa ttcacattta tttcaaaaac tcggcatgga ctctcagttc aggctgctgt   60
aacagaaagc cgtagcctga aaggcttaaa caacaaacat ttatttctta cagttctgga  120
agctgggaag tctcaagggtg ccaacagttt catttctctg tgagggtctt cttccgggcc  180
tgcagacggc tgtcttctca ctgtgtcctc acatggtgga gagagagatc atctctctgg  240
tgtctctcct tataaagcac taatccatt catcagggtt ccaccctcat aacctaatca  300

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cctctccaag accccacccc caataccatc cctttgggga ttagggcttc aacgtgaatt 360
 gggagcatat gaacattcac cccttagctg actccaccca tgtcaactag ataggacaca 420
 cngtgaagta gtgaccacat cttacacgtt tttagccact gctgatgtcc gacangnctg 480
 ggtttgggac cagtgtgtac cagcaagcat ggctgtgggg canctgtacc tctgaggaan 540
 aaatggtcc 549

<210> 7523

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7523

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 ttaaatacaga ctgaccttcc acaatatgga ataaatcagg tggtttaact ctactgacta 180
 aagagtgttt tccccaaccc tgagccaggc ggctttgtcc gtgtcgctca gctgccggct 240
 cactgaaggg tggatcatgga agagcaggcc gccgtcgggc ggtgactgat tacaatcatt 300
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 gcgcgtcccg ctctgcaatt actgatgtgc acaaaggacc cagggaccac ttaaaacaag 420
 gggaggactg agtccacgca gggatgaacc acaggccaag tccccacgtg cttgacagtg 480
 gncccgaac ccacctgntt cagacacctg ttncganggg aatctttcca tccacctggc 540
 cgttgggggtt aaaacc 556

<210> 7524

<211> 510

<212> DNA

<213> Homo sapiens

<400> 7524

aagggccaag ggtaaagtga atatttatca ttagcaccac atcccatggt cagccccacc 60
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 ataagggaaa caagttccca gcctatgtca catgagtttc tgcactatgt gttatgtggt 180
 aaggtatgca ttccctcagg acttcccaaa tccattacat gctagggttt tctctctggt 240
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 atcacattca tagggtttct cccctgtgtg aattctctgg tgtactctga gagttgaatt 360
 ttgggcaaaa gcttttccgc attcattaca ctcatagggt ttctcccctg tgtgaatctc 420
 tggngtgcnc taaggggnga ttcttgggaa aacgttttcc acaatcatta cnattcatag 480
 gatttctccc ctgnggggaaa tctttgangn 510

<210> 7525

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7525

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 ttccgtatac aagtaaactt aattttgata ataagaacca cagcgatcgg aggcaatctg 180
 cctctataag gtacaaaact ggcacagagg acaccatata atacacagta aaaatgctgt 240
 aagtttaaat tacattgtac agggctaggc aaccctgttc ttcccagaca gccatattaa 300
 atgaaagcca ctaaagtga ctcttaatta cataaaacat atccattatc tgattgccct 360
 ttaggaagta tactgaagat gcaagttttt ttcatctgga gttctgcctg accaagaatt 420
 aagcctataa atctatcttg ccattcaagc agagagcact ggacaactga agcncaaaan 480
 caaataagca aacttatnca acagcatggg ggttgggggt nanggactta aaagtgacat 540
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<210> 7526

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7526

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caagtcatta gagtcttttg attttttaaa ctccatttta ctgtgtacca aatcaatata 180
atcacagaat caaagtcact tctttatatg tgaactcttc gcatttacac gaatccacac 240
atagagaagc tgttccaaga ccccccaaca ccattagtgt ctgcagccca ccaggaaggc 300
accatggact ttgtggagag aaagatgctt tgggggttca atgggtcagt atcttgggca 360
ggaagcacag ggtgactccc gtcttgtgtg cgtgcgcaca gccaccaaca cacactctca 420
ggactttccc gtttcacata cagggaactt ttaaggcaag aggagaaaat gctaggaagt 480
aaccggggga tcagaactcc tccacctttn aggttccacc agtcacattt cccagttccg 540
tcttntggtn gaacctg 557
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<210> 7527

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7527

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cgatcctccc acctcggcct cccaaagtgc tgggattaca ggcgtgagcc cccgcgcccg 120
gcccagcacc cggttctcga ccacagccgc acctcggagc tctgagcatt tcctcctctg 180
caagactgaa atacttctat tcagtcttga atagaacagt taagagtagc atgcagggtca 240
cagggtcttc ccaggaggga aggaggtcgc agtccaaaag aaggggaggt ggtcactgct 300
gtccgcctcc cacaggggct tggagagaag tccaaaggct caagagagta gatggctatg 360
gaacacaggc cctgggcgta ctgtcgcccc ggcagccaca gtgggccacc aggagcggga 420
ccggcgcgcc ctctagtggc ggaagcaacc cctgcagcca agggccccgc atcctggaag 480
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caactgaggc acagagagac tgcgacgcc cccagggccc acctgggtcc gaagcgatag 540
aagccnggat ttgnatttgc ccgtctg 567

<210> 7528

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7528

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aatgggttatt gatactgata gaagttcccc gctgagactc cctggacca tggtttgtgc 120
ctgctgggca tcccactatg ctgattccta ctctaaaaga cacttacagc agaaagcatt 180
cacccatgac cattatgaag gaaatattct gtccctcact caccctctgg aagctaatat 240
ggagcagcag tcactctatc cagagccaca tgttcacagt tctctagcaa gcaggtcaca 300
ccccgtgggt cccctattcc ccgtgaccct tgttgatcca tcctcttctt gctcagttgc 360
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ctgggatgga atgcaggaca gggagagagg ggagactgag ctgagaggga gcactggatc 480
ctgggaggtg tggatgcctg attacagtcc aaagacattg gcagcaacaa aggacccaca 540
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<210> 7529

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7529

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accagtttct taagcttttc cctgagtttc agcagcttac ggtttcagtg aataagcaga 180

gcgccctggtt ttgaaatgtc tgttgtttgt ttgaaaatct gaatgtgtct ttcaaaggct 240
 gctgtgattt ctttggataa aatcagattt cgtatccctt agagagcttc cactcctgct 300
 tcacctttcc aaaaactaga cctaaggtag aagccacctc gacagctcaa agccagagtt 360
 agaacagtca tactgaatag atncaatagt ttatctgggtg cgtatttgga gaaaggcatg 420
 acaatcaata cgaggcagcg cagctcggag tcacaggccc gactcggttt gaggctccgc 480
 ggaccataat tagctatcac atcaaacagg ttctgnagcc cctcttggct tttttcataa 540
 accnggacca taaccggccc tccttt 566

<210> 7530

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7530

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 tggcttgctc ctgtccagct gctgtcccag tgccacaatg gtctagcctc atggccagaa 120
 gcatttttagc caactcctgg tctgtctcac tctcttcctt cttccgccgc tggggcctca 180
 ccacctcttc ctctcaatc acccggtctg cttgaatcag gtcagcttcc tctgcgatct 240
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 tctcaggtcc tgctggagaa acactttgcg tgaaagaacc gacaccaaga cctagccact 360
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 attcatgaga ctttcccagt gctgggggtga gaatgtactt ctgcaggtac tgggtcccgta 480
 ggacaccacg catggngcac ttccagggtc tggttcctta tgaaactctt gcttgactcc 540
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<210> 7531

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7531

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aatacaaaca gtccanaaag aaagtcaagt ccctctgggg gaggggcaag gggaagagtg 120
gtctgtgttg cttgggagcc caacctacaa cccaaagggtg ggggctgggc tganactgcc 180
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ggggaagaag ggataaagaa tgtcccanan ggtcctggat tcacagcana tgggtccaaag 480
gacccttgaa acacccttga acaattttcc aagngcttac tggaaaaagg ggtggtgaaa 540
acggganaac ccaagggttt ccggnntaa 569
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<210> 7532

<211> 573

<212> DNA

<213> Homo sapiens

<400> 7532

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tacaaaaagt tggcttttat ccattcctaa gtttggaatg aaaataattc cttgaatatc 120
aactaatagc aaaatgtgta aatacacgga gtaaaataca attctccttg tacaagtgac 180
atgaagtcta cattaccagt tcggtatfff ccatttttga aaggagaact gatagaagag 240
gctgggatga ttggaagtgg ccacaggaaa tctttgtgga gtctcttcag ggctattaca 300
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gcccagctgg gctgcaaagc agccaaggct ctttaacctc acatcttcta agangcgccg 420
agcatgtctc cagagcatca tgtcaatata catggtctca gcacagtcac tggcttttgc 480
tccatctttt tccaaaggga ccagatggca tacttagggt ttctggaaac cgaattactg 540
gcaggacatt ttagctgact gggataactg agc 573
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<210> 7533

<211> 499

<212> DNA

<213> Homo sapiens

<400> 7533

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atgtttaagc tgtatatatta ctcacgaaa cactcgggtga aatcagggtga aaatcaacta   60
aaggaaaaat atttgtttca ttcatttgaa cttaaaccac ctaaagtagt actcatgtca  120
ttacgatgca gcaaatacaa gacctctttc tacaagatt agcacaacca acaaattagg  180
ggatatagca aaacagagcc aaaaacggta agaaatcaat taagtatgtt acagcttaac  240
cctttacctc aatagtttta aaaaaataag caaagcctcc caatcccaa caatacgaat  300
acatcttcat caccaattcg tacttgtatt tcttattctt gaggttagat tctaaaccct  360
aaagatatcc aaactagtat tagatctact tatctatagc cagagacggc ttctatcaat  420
gntgccttag cagccaaggg tattaang cttttctang canggcgccg gtggctnacg  480
cctgnaatnc caactggta                                     499

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<210> 7534

<211> 518

<212> DNA

<213> Homo sapiens

<400> 7534

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cgaatgcgca gtgatgcttt aatccccctg ttgcaaacg agctctgttg aagctcagca   60
ggaaggatgg aaagatgggg aggaagaccc tggcgggtgg aagtgtggcc agggacacaa  120
ggctgccctt atgggactga aagagaaagc tgctgggctc tgtgtgactg gaaaccaggg  180
aaggagacct ggctgaggca ggaactgggt ttgccagcag tgcggagggg cagcgggtgg  240
ctcanaagtg ggagcaggta cacagaagga gctcagggca tgcctggggc atctccaaag  300
ctctgctgag agtgaaggcc aggagcctgt tttccttccc cagaagtgtg ctcatgggaa  360

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atggggcagg gggcaagctg cttggggatg gaaagtaagc ttacctttga tattaaactc 420
attccttgac ttgcttgcan gccaaaaagc ccnttttga gcnttaacct tttagccntt 480
ggaagggttn aacttgggct tccanaaacc cccaancc 518

<210> 7535

<211> 536

<212> DNA

<213> Homo sapiens

<400> 7535

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ggagcagggc ttctgaagct gactaatacc tgaagaatac ggcaacgtga gaaggcactg 180
acccggctgc tttggtaaatt ggaagaaaat catctcaggg ttgctaggaa catgggtaag 240
accagactgt agaaagatcc ttcaaaacaa aacagtttgc cattccttta acaattacta 300
acgtcaagaa cttggaattg tgccacggaa gacagagctt aagatggggt ggagccctta 360
cctccactgn tcccctgggc ctaaagcctg gnttccttat ggggtgttgg ggccacacaa 420
acaagtctct ggtttcaaca cagtgcagct ggggaatggg tcatgtccca aatgattttg 480
gaacaaggnc agggtcctat gaccttgctg gcatgaatgg tgaagnccat aaggga 536

<210> 7536

<211> 531

<212> DNA

<213> Homo sapiens

<400> 7536

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gttttcattc tctcacatat gtatacctag aagtgggatt gctgggtcat agggttaactc 120
aagngtttaa ctttgtgagg gcttgccana ctgctgtaac atttcacagt cccaccagtg 180

gcgttttgag aattctaatt tctctctttg ccagcacttg ttattatgcc tttttgactc 240
tagtgctatc ctggtagatg tgaaattatg tctcattgng gttctgattt gtatttccct 300
aatgactaat tccctaagca tcttttcata tgcttattgg ccattttata tctttttttg 360
agaaatgtgt attcagacct aaaaactgtt ttaaaaagca atgcatttta aattaaatgt 420
ggagataacc tatgttnatt gctggatatt tacatctctt tccaactcaa angngaccat 480
ggtgactaca tcctggcctg ganagcnnat gaaagctcct gggtaaaagg c 531

<210> 7537

<211> 536

<212> DNA

<213> Homo sapiens

<400> 7537

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ccgtttctgt ggccgccggg ggtgacgggc ctttgcaggg gctcatcccc gctccactgc 180
acattagcca gccccttccg ccttgtcttc cccgtgttgg tcatgatccc caggtactct 240
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gattcaagaa caccatctgg tagctcttcg gaatttagct gcttgatgat gaattctatc 420
tggcggatca tttcagcatt ggcttctttt ggatgaaagc ancgtangaa ggncttccat 480
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<210> 7538

<211> 529

<212> DNA

<213> Homo sapiens

<400> 7538

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 ccatgcctgg ctaattttta aaattttttc tagagacagc gtttcactat gttgcacagg 180
 ctagtcttga actcctgggc tcaagtgate cttcagcctt ggcctcctaa agcactggga 240
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 caaagtttaa atattctatt ttgttagcac ctaattaaca tacaatttaa gacactttca 360
 aaattttaca ttattgaaaa taagtaggtt gaagactttt acttacgac actttgctgg 420
 tatgctgcat ggttttgaaa taataaaact ttantttgna aaccaacact cacttaaaac 480
 tnttactaat tatatgaatc aaactggctc ttggtnaaaa tccccggg 529

<210> 7539

<211> 520

<212> DNA

<213> Homo sapiens

<400> 7539

ccagtcccca aagaaaacca cattttattt ctccatcacc cactttcaac atacatccat 60
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 tgccatatta taaacatttt caacatggca ataaaacctt tataatggtt cacagnggct 180
 gaattagaag catcctaaat gaacaacat ggaggtagtg gtgggggatg aacataaaca 240
 taacaactca gtatTTTTgc ttcaacaact aaagcaacaa accacatctg ttagaagcag 300
 ccccttccat cttagcacia gcttgTTTca gtctTTTTTT ttgaaatgga gtctcgctct 360
 gtcaccagc ctggagtgcg gtggtgcgat cttagctcac tgcaacctcc accttccagg 420
 ttcaaggcaa ttctctgcc tcagctttcc aagnanctng gattacnggc cccacttcta 480
 tgcccagata atttccngga ttttgggana aaanggggtt 520

<210> 7540

<211> 528

<212> DNA

<213> Homo sapiens

<400> 7540

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acataagttt tacaagataa tacattttta cagtgcctg atgtggatac aactttgcaa 60
cttggcaaaa agcaaatcct aacttacatt ataattaatt tgctgcattt tacacatctc 120
tgattctcaa ttttggcaag tacaacaggt taagggttct atttagtgct cccttctgat 180
gaatatgatg atcttgaacc cattcttcct cctcaagcac ggtcatcctc ctctgatggc 240
aacagcagaa cctctgggaa aggaaccttt cggtatccag aactcccagg tggcagccca 300
gtgtgggatt tggagcatga caacaaaggc attttctcaa cattactaa aggagagtgg 360
ggtgttctat acgctactga tggggactgt catgaacaca tttaaattga attacaacaa 420
cattttgatg aggaaatata gaatcttata agaacntaat ctaaantatt acccantttt 480
aatagcaaag nttaaccata aagctactta agtgttggaa ttanaaaa 528
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<210> 7541

<211> 528

<212> DNA

<213> Homo sapiens

<400> 7541

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gggtgactcc actcacccca ggatttccca gacttgctat tttagaggag agaggcagga 120
agccaactat cctctaagcc acagcttggg aagctaggct agtactgggg tgggggcagc 180
agagctgaga cctccacccc cgagccccta gcctgtgcta tcctcccagc ctgaggggga 240
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cactgccctg agctattcat gatctctgct cccagatatt cacctcaaca ctccaaaagc 360
cagccccctc aggtcttcag tcctgcggaa ggcaaaagga gggacggggg cctctgactg 420
ancaacttca aggggcctct ctttctgctg cccactgnat gccggccctt ggctttaanc 480
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```

<210> 7542

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7542

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ccatggcacg tcctttgtgc tacgtgataa gtgtgcttta tctcaatgaa gcaaccccac 120
gggtccaggc accctccctg cagtccccgc ggccaggctc ctgagtgtgc cagcagagcc 180
gtcccctggg accacagcca agtgccttcg ggcagctggc ctgacacagg cggggtctgc 240
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ggcaaaccct gcccaaaggt cccaccccca agaggcctcc aggaccgca ccaaggcatg 360
ggggacactc gtggctgctt aagtaactgg tatgtgcaca gccccctncg gggccctaata 420
cttgagccag ccaagcagtg ttcacactgc aagtgcctgg gaagcccaa gtttggaccc 480
ctggccaatc cttgtcaggn accaaaaccc ttccttttaa aaggnggctt tggaatgaac 540
caaangcttt ngatggcctt gnc 563
```

<210> 7543

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7543

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taatcagcaa attcctgcct ggctcagctc tggtttatgt aaatagtgcc cagctgtaat 120
gagttacaag gtgttattat ctcacacaca cacaggaggc ttcactctag agctccgctc 180
gcaacaaaag catcttaaata aaactgagag aagcggtttg atttgtaatg ttttcacaga 240
agtgggatat acctcaccca tatagagttt ctttatatga ctcattttat agcaagttaa 300
atgaaggaag tttgatgggg gagggagggg caatatgggt cccaccccc tttcttcaact 360
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ttaagaaaat cccccaagag atgaccgcga ctgagggagg aggggctggt cctcagggtgc 420
 tcagaccaag gtggctctgc ancacgtgct tcanaagttg ggaaggggga ccaaagctgg 480
 gcacaggtct ggggctggta cactaacccn gaagaanggt ctcttctccc cnnatctcat 540
 gaaangggan ggccanaccg g 561

<210> 7544

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7544

acaaaaatgc cttttattta catacgagaa aatctcaccg tgtgtccagc tggccccgtc 60
 acggccgctg aaggcagcac tgctgggcaa ggagaaacaa ggccacacct gcaaactggg 120
 ctgcagggtg aggtggctcc ctccgcacag gccccaggac acccaccatg gcacaggcca 180
 ggctgctgcc cccacacggc ctccacgagg tcacgggtcc atctccacaa cccaaggca 240
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 caggccccgc cctctcccct tgaaaaacag gtggtttttt cctaacacag gaaaacagaa 360
 aatgagcacg ctttctatgg ctgccaaagt acaaggagag gctctgccct gggagccact 420
 gcatggatgg tgggcaaggt ccgggagcca gcttcaagga gcangaagca gggggccatg 480
 acngcaggac agcccanccc taacccccgg aanaaaaaat gcctggacat tcaagtnccg 540
 gngctttttc cggttaa 557

<210> 7545

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7545

ggaaaccttg aaacaattta ttgaattgct ttatacaaga ttaacaatct ccacaccacc 60

cctaacacca acatagtcgc tgcacaaaag ccacagcccc tctcacacct aagaaacggt 120
cacgcccggg aagtgtcag agactttcgc tgcgccaggg aaaccctgc agccccaga 180
ccccgaggct gctctgcccc accctctgct gcggcctcgc ctgtaggtct gccttgccat 240
ggctgttcag tcattcgctc ttctattacc acaaataaag cataaacaag gaaaagaaat 300
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aatgagggtta ttctgtcca gctgcacgcg caatggtaca tggggaggag ggagcaccaa 420
angggaaagg aaggagggcc tgggaccccg ggtggtttat gggcagaaaa gccttggana 480
agtccttnt taagcctcan tggccgggct tntgnttggc ttttaactta acaatccaaa 540
tctctctttt ggctcttttg caataccnaa 570

<210> 7546

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7546

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ggtggtgttc aaggtccaga ggcatggggg taaccccaat ggacaaagg tctgtctctc 120
atggaacttg catcctgaag gggagaagat gatgataaga actcaacaag ctctaggaga 180
gcaaggattt ctgtctcttc tgttaacttt ggtattccca gcatctacta gctgttcaat 240
aaatagttgt tgaattaaac aaaaaaggta acttcagcta gtgataagt ctataaacia 300
tacagtaata agtagagagc attggaggaa gagggcagat atgttattac agatcaagga 360
gtagaaaagg gcttctctaa agagatgcca ttagaacttc aacttaataa cttaaagtcag 420
ccctgcaaag atctgaataa atactttnc gaaagagaaa ccaccaaggc tcttgctgag 480
caggaatggg ttgcattcaa ccaatggnt gnttgacaa ncccanggcc cataaagggt 540
caggt 545

<210> 7547

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7547

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agaaacagtc tcactcggtc acccaggctg gaggccatgt cacgatcaca gcttactgta 60
acctcaaact cctagactca agcaatcctc ctgcctcagc ctccaagta gctaggacta 120
caagcatgtg ccaccacact tgtttcattt ttaaattttt tgtagcaatg ggggtctcgc 180
tatgttgccc aggctgggtc tgaactcctg gcctcaagga ggcactagat tgaatgacaa 240
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tgccagtggg atgtggcagt gccacccttc ttatatcttg gctgtcaagt cttttggctt 480
ggccccgcaa cttcattggt gccaatgctg aaagatgaac tttgtcangg ccattgntta 540
acccaaan 548

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<210> 7548

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7548

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ggccgaggat ctctctctg gtggatcact tgagggcagg agttaagaga ccactctggc 120
caacatgatg aaaccctgtc tctactaaaa atacaaaaag taggagaatc acttgaacct 180
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atctaaattc tacgttggtt aaggtagctt aggttaatta gtctatactt atttaagacc 360
aatatggggt gagatggatt tttttttaa aatcctacag taaggcttct tactttcctt 420
ctaagtagga aaaaggtgac aaaaattcaa gtgtcaatgn cccctttctg ggaaaagggt 480

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tanaaaaacc attgcttacc ttgacttta cnagttcctt tgaagttacc aagccttta 540
atccgnngg 549

<210> 7549

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7549

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gaggaaaatc ttacatatta gggctcatct taatgttatg gactgatttc agtaaaactt 180
tttaaatagt aaatagcaat taacgtattc tcaaactgtg ctaagtagtt agaaaggcaa 240
ctataaaatc tataatgata acacgtggca ggattagaac tgttctgtta aacattaaga 300
accacatctc tgttttagat gttacctcag tgcacctttt tcaactggtaa ggcaactgct 360
tgctgtgggt gccacaatga ttaccaagtt tcttcttaag taaaagacac ttgtttgatc 420
aagactcaag tgagttttct ttccaattt ggtcttttga acagaaggaa tccctgggcc 480
ttgatata taaggagcaa tatgaaatnc actgtataac tctaaatccc aaggccatga 540
atattcattt ctt 553

<210> 7550

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7550

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gggtttgtca gctccagcct cttgggactc ttttctctgg agagagtga gagaacagtg 120
ggaggcaaag acacatagtt ggggaagggt tcttttaata tgcagatgct tcaggagaa 180

ccaaactatt tcactggtaa tctcccgtcc cactggaact ggtgcttgga tcggaaggga 240
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 actcttcagg gaggatgcta gagcctgccc tgttgtaagg gggatccatct ccatgaatcc 420
 tcttgcaata ctgggcaaca gtccactggg cacacattcc accttactgg ttttttttaa 480
 ggnggtggnc tacattgagt ttaanccacc cattgatgac naticggatt ggngcaataa 540
 ccagnggaac tccatttttn 560

<210> 7551

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7551

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 agtcaaggac cttagggagc agagcagtgg aatgcaaaca cagaaattac ctatgagtca 180
 cttttgtgag ccaatgacac ggcctcactg cagccattcc aagaagtatc tttgctcacg 240
 gtaaatgcaa agtaaacaaa ataccacact gcatatttga aacaaacaaa tgtgacgttg 300
 cctatactgg cctcatgtgc agaaggaatt ttggtcagac aatgacaaaa aaaaaaaaaac 360
 aaaacagatt gtgaaatgga attaaaagca caattctttg gnatctggga acgtttcact 420
 ggcaacacta ctgtatgata cagacgttcc tggaacagta gttatggttc tcttcctatc 480
 cccaaagaag cnccatngaa gaaatnggnc ncaaatggaa ggaagggggt tgttaccagg 540
 ttnttcagg 549

<210> 7552

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7552

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aagagaagta aaaaaattta ttgcagtatt cgctccacca gattacctgg ggatcccttt 60
tcttgtattg ttttcagggt gacctaatc atcaaaatct acatttaca aaactccttc 120
tgcagatagg tcatagatac tgcattgcttt ttttttttc aacagaataa attatatatc 180
caggagattc tgccatttta cagcctggaa aaaacaatgc ttccttgga actgggctaa 240
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cagactaatt tccaacattc acttgtttat tttttttaa cagaaagttt ttttccaaga 360
tataaacaat ttttgtttaa ctataatata atgggagtaa aaatgaactg agaactctgt 420
tctgctgcac aacagcgaag ggagctcca caaaaatgtt tgccaacat ttccttcttt 480
tggtcctgca tncangttc acttactctt cataaactgg attttttgg ccaaaaggtt 540
ggnanttcaa 550

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<210> 7553

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7553

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agccgaatta agttctttta atagattgca tatatagatg tttagccata ctcttagatc 60
aactctttaa gagcagaact ttatatcaa tttacatgct ctagatacca cttttttat 120
tttttacagt aaggctctgtt attcaaatac ccacttgtag actgacagct ttaagaaaaa 180
caggacacag agggagtgtt catttttagc agcaatgaaa taccactaac ccctttttac 240
ataccgaatt caagtcacta tcagaggtga gtgcaccaca aagtcaccag gtacaaaatt 300
gctagtcat ttttaaatta ataactgaa attaccctg cccccaccc cattacatct 360
ttttataaac agcaaacatt ttgctatatt atacataggc tagcaggctt gtttcaatat 420
gaaagtgcta attcatttac agatttttat aatcagggtat gtaggggcta caataaaatg 480
nccaataatc tacataggga ccatggtgga aaatggtgaa naccgggata aggnnttttag 540
atggnccttt t 551

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<210> 7554

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7554

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gcatgtgcaa aacaccagac acatacagaa acaattagga ttctatgagg gcagagaatt 60
tgttttctcta aatggggctg ttcaatgttt cacagagcac aaggacaaga aattcaatat 120
ttttgagcag aaggaagaac tcatttggtt ttataattcc ttaactagtt tcaagcatat 180
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attctaactc caagctctac cacaaatcaa ttatnccaat ggngcgactc ttcatatgcc 480
ggatcctgnc ctttaaggngg gnatggggga ctcagaacct ggattcagna aacacctgga 540
agctgggact tntttt 556

```

<210> 7555

<211> 538

<212> DNA

<213> Homo sapiens

<400> 7555

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gtttttgact ttggtttatt taaaaaacia gccaaaaaaa aaaaaaaaaa accccaactt 60
tatatacaaa gtcaaactga aaccacggat tatggaaaga ggcaagaatt atgggtaaca 120
gggganaagg ctgggccaga gccaatacca cattctgaac acaggagcca cgggaaagag 180
gtgctggttt cttctggcaa gaccggggtg actggaacgc agngttctac tggcaaaccc 240
agcccaacac tgagctnttt ctagcatgga ctccattccc gtgatggcca agggagaccc 300

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ttccccana agcctgtgtc cggaacctag canagcctgn gccatccgga ggagggggct 360
gcttagcccc agccaggctc catgtcttgc tcttcaattc cgttcactga catcagacct 420
tgtcccacac tcgaaaagcc tttttctccc ctggcttatt ctaaactgga aaaggacngg 480
agaaagtcag cncaagactt aaangggccc aggagaaatn cccanggtna nggcaaaa 538

<210> 7556

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7556

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acaacaacaa ccaccttaat gtaactgaca gcccttcccc ctnaccctgc ctggggctgg 120
gggtagttaa tggggaaatg gccccagggt tggggctgac canaanagcc cctcaaggag 180
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ggtttaaaaa gggtggagcg ggtgggggtt gctcacacga aggagtactg gttgttaatg 420
gccctgggggt ggcccccttc ctntccatac cccctaattg tgactgctga actgcaccat 480
tgggggcacc cccgggttcc caccagaccc aggcctgggn ctttgaacct gggctttggn 540
ctttc 545

<210> 7557

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7557

aatctacatt attaacttcc ttttggtata ttacagtgat attttctgta catggcccag 60

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 ctgaatccag ggacacgac ccggttttcc tggttgaata atctcatctn catttatgac 480
 ctngncatca attattttct gntttgcac aatactgntt gnattttanc atgaaccttt 540
 ttaagntcct 550

<210> 7558

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7558

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 agcgatcagg aaaaggatta atcagtaaag gagaactcgt gagtcattcc ataagatgta 180
 aagcactggc cgtttctgtg aatttccttg aacaaaggcg tgtgtctaaa ctacttaaga 240
 tctttaactt aactgaaacg ggtggctgcg ggtttcagga ggagccaaga tgtttgatta 300
 tgctccactg cttcaaggga gtgtgatctc cctgagcaac ccatggaatg ctgctgaaga 360
 gttatgctct cggggcataa agacatgaag gcaataagga gacttttctc ctcagaggcc 420
 gccatggctt cccatgggtg tctcacacag gggagaccaa cttactagc accccagaaa 480
 ctcacattag ggtttacaat agtaagggtg tctttaggag ccacnttggg gaggggtcaaa 540
 ctttttggag cccaaactnt n 561

<210> 7559

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7559

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catgttatag gtcattttta tgaacacatg cacacacact ttagttttca aagaccaaag   60
tttaaagaaa atacttttta gtcaagtaca gatccccaaa ggttttatta aagccaattt  120
ttatttaagt agtcttcatt ttggaagcat tttcccctag tactctaatt tcaaaatcag  180
tatctctcaa atgctgatgc cactgggaaa aatttccaaa ttggtaatgg aaacatatgc  240
tatgtgcata tgctcaaact agcaacaaca tgatgtcaaa taaaaatgga tggcattaaa  300
aaaaaaatcc aaaaacctat aatggcaact caaagcagca ataataagaa gaagagatta  360
aaatctctag ttaaaaacaa tcaagacttg cagattaaat ctgaacttta ctccttctgt  420
tagtacaatc cagaaacttc ttgctactca aattcaaaca gggtgcaatg aatggggtag  480
tttcgnattc cagaactacc ttncttacc tgntcctaca ttctgnttt cttntnaaaa  540
attnccectc ctttggggga atccct                                     567

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<210> 7560

<211> 542

<212> DNA

<213> Homo sapiens

<400> 7560

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canaatgcct ttattttcag nancatanaa tttaaataca gagtcaaaag atgattnata   60
aaatataaaa cattttctgc ttggccgtat ttgaagacaa gctgaatata tatctatgtt  120
ctgaataagt ccactatgga tatatatagg aagagatain catatatcca tccacagatn  180
cacacacaca tatatatattc tgcattgata tatacataat tctttctata gttncaggaa  240
atacttcttc tataattctg attttgactc ccctcctcca ccatttactc atccactcat  300
tacctaaatc ttggctttct ttcctatatt gnaaataatc catccaaact tctanccagt  360
actgncagga gggttcttgc tcnagtgagc tgtaataact attttccact gacaacttct  420
gcacatcggg gacncagngt atctgaagac tccgcngnat acttccaaca acgggggcat  480

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ttttctttcg naaacggcat ggcaattact ttataggaag acttttcgaa antccccccc 540
tt 542

<210> 7561

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7561

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gatttagctg ggtcctctgc tcagagtttc acaaagctgc aagcaaggcg ttggctgggg 120
ctgggctttt atctgagggt cagatgcttc ttccaagatc acatggttgt tcacaaaact 180
tatttccttg cagccgtaga gctcatggca gcttgcttat ttaaggctaa taggagagag 240
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gggatctctt tgattaactc aaagtcagct gattagaaac citatgtata tctgcaactt 360
ctcttcactt ttgttatata acataacata atatgggaga gatgatccca tcacttttgc 420
catattctgt tggttagaag caggttacat gtcccaccca ctctcaatgg gggagaggat 480
tataccaagg catggattat tgagaatcct ctagaaatct gctatcataa ngggaatatn 540
tatctatgga gnggaaaaaa attaa 565

<210> 7562

<211> 444

<212> DNA

<213> Homo sapiens

<400> 7562

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acaaaacaag atcccagtta caagngttta aaaaaagaaa atgattgngg gaggcctctac 120
atataactag tttgnatggt attcccaggg cactgttgaa tatattggaa aaaaagatga 180

ttgaagcatt tactaaaatt tttgttattt aaaagaccaa atccctatgg atttgggaga 240
 ttgtttcanc agagaagtgg ctcanaaaga cagtaacaaa ggctatgact aaatggatac 300
 agttctggaa agagaacaaa ctgcagagta ccacagggat aatgttaggc cttcttacia 360
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<210> 7563

<211> 498

<212> DNA

<213> Homo sapiens

<400> 7563

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 agtaactggg accacaggcg cccgccacca cgcccagcta attttttgta ttttttagtag 180
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 gcctcggcct cccaaagtgc tgggattaca ggcgtaagcc accgtgcccg gcattatttt 300
 attttttgta nagacagggt ttcacatgt tgcccagggt gtttcacatt ggnntaatcc 360
 aggctggta tgaactcctg ggctcaagca atccacacgc cttgncctnc caaagtgtg 420
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<210> 7564

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7564

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 cttgctcagt gctgtgggtga tggccacagt agcctcgggg ggcacagcca cggntggggc 360
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 cgaccctgcc gaccggcttc tctgtcctgg ccaactgtggg canacggggg gccttccggc 480
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 gaacccc 547

<210> 7565

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7565

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 aaatacatag caaatattatg aaaagaagaa tattcaggga taatgcaatt tcaattgact 180
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 aatactgcat tggctagggt gttgctggat ctctatccag cagactccaa ctgtncaatg 420
 cttaatcaca gtangactta ctggcaatt cacatgacca gtccaaactg gcccatgaag 480
 gccggcaatt ccctgggggc cgatcgggaa ttgggattga aanagggtg ccatggttcc 540
 acataaggct tttaatgggg ggttgggt 567

<210> 7566

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7566

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aggaccacag gtatgtatca ccacacttgg cttgttatac gcacgtgtgc gcgcacacac 180
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ctcaagtgat gtgcctgcct cagtctncca aagtgggggg attacaggcg taggctacca 480
caccagcct atgggcttac tatattgncc aagntgggct caaaaattct ggccttaaca 540
aatnttctgg ctttaanc 557

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<210> 7567

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7567

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tacttgaaaa agggtgcaaa aacaccagac taataaatct gactgaattg aaatatctct 180
tctttctttt taaaaagtac atcattaaca catacaccac aaactgtaca taagctcact 240
ttaaatcacc aactggagat atggtagcat gtatactgta gtgttaatta tccctcccat 300
cagtttaatt tattaaagcc ttacactgct gttcattcag gagcctttgt tgatatgcaa 360
gcctgtaata tgaattactg aactcaggta agtagaattt aaaggaggcc aacaacagct 420
gccaaagaatt atctgcagta agaaatgtcc ttctcacaga agactcaatt aggagccaac 480

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attttttaaa ctatcttccg ntttcaaaaa tattggancc ggncaaaaat cttcantttg 540
gaactctgga tgctggnggt tgatgaaaac 570

<210> 7568

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7568

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agtaaataaa ccagaaattg gataggcgtg gtagctcatg cctgtaatcc cagcactttg 180
ggaggttgag gtgggcagat cactagagtc caggagttca agaccagcct gggcaacatg 240
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aggaaagcag caatcatcta tctgtcttgt gccaccatc aagagagttc ttgagaccaa 480
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ngactgatgg tanactttat tcngaaacaa 570

<210> 7569

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7569

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aactgccttg actgctgtgt ggacaaagat tccaaggatg tactttggct ccatgggaag 180

gactactgca atttatttagc ggtatctgta aacatgggga ataaatctca gccctggctt 240
 cagcctcage cacagccaca gctgcagctt ggacttccat ctccactgcc tcgcggtact 300
 gcacagccca gtccttgggg tctttcttct gcaccctgca tgcaaacttg aggactttca 360
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 aacttccaaa tgacagctta attggccttg gtgn 574

<210> 7570

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7570

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 tgggactaca ggcatgcgca ccactgcacc cagttaattt ttgtattttt agtagagatg 180
 gggtttcacc atgttgggtca ggctggacaa ggcttttttt ctttggagaa atcactcacg 240
 atcgtatgaa tttgcttcca aaacatccaa atttaatgta ctaatgcaag gactggtaag 300
 acttaagatt cacataacgt cccatcatagt taagtctctt gcttcctact attagtggaa 360
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 aaagccagcc aggacctgac cacctgtatc ctcttgggtg caatctgctg aagccagatg 480
 agttctgctt ttttaattcca atcctattct ggcaactggaa ctangnctgg caaccctctt 540
 aatcattaac atatcaaa 558

<210> 7571

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7571

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gaatgccatc atcagagggc tctgggtcat cagccaagga ggggtgaaaa gacagaagca 180
gcaacaggtc cttcagcaga cagaggggca tcgatgccac catccctacc caggtgcagc 240
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agaacgcaa gccggaagga accatttctg ccaccagca gaccacagc accctctgtc 420
tgnctcaga taccagaggt tagtcaacc agcgtctca actaattgga gatcggagct 480
gggcttaaga ngctgaaaac ccnggggntt agtaaacaca gnccagcata cgtccttcac 540
gggctgaact ggacttgcca n 561

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<210> 7572

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7572

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tgctactact aaacatgtgt ggcataacaa aattcaacag cgacatgagt tctaacagat 120
tgttctgtac aggtgtgcct gtgagcagca aacggttatt tgcattaatt gtcataaggt 180
gctggtagcg aatggagccc atattcttca gcataatggc ctcacaaaa attgcgtaat 240
taagtttcag ccgtcgaaac agactacggt catcagaact gctgatcgca cagttatatg 300
tggtcacaat tacattgtaa tcttcatatc tactatgaat gttaaatact atttgtttac 360
gttcttcttg agaaccatag taacagagga ctttcaaagt agggcaccat aaattaactt 420
cccttaacca gntatctata gttgaagctg gaccaacgat caatgaggac cattataccc 480
ctcctgatan aggtntgcca aaattgcaan ggcttggaag agttttccta gggcccnttt 540
aatnggcaa aangccctta aancc 565

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<210> 7573

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7573

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tttcaagaaa tataaaagca ataccagag attcgagtga gacacagaca aaccataat   120
ctttgtcaga aatggaatit cacctgtcac tcgctgattt aaccttcaact tcttccctga   180
cccacaccca gaaccaggca ccctccagag ctggcccatc tccctccag cccctgcctc   240
cctgcccggc aacaccccgg gagctccagc gagtctctgg ccgctccaag cgctctgagg   300
gcaccagcct gtcccaactct ggccatttca atgccgctcg gacagagcct ggtgggggttc   360
gtaagccagt gcataacccc accctgnacg tgctcttccc gggtcggcgc caagctggtc   420
tggaaccgaa tcctcgcgct gacgtttcct ggngtccac ggtgctggac ncaagaattg   480
agggtggggtg ggntaccctg aggcccaagc cttccaaaac tggtaaaacg gccggaggca   540
tggttgntng ggggtggcana n                                           561
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<210> 7574

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7574

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attcagcaag gaacaacagt gtcaacagct cattagcggg tggggaccgg attttccaaa   180
tcaatggctc tggctggcag agtgctgagt ggggcctgag tgaatgagge taaaacgctt   240
ggccgaagcc gtccatcccc aatcctgaga acagagttgt ctgtttctct ttcgggggtc   300
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aggtcagccc aagtaagagg ccaacaacct acctgggccg atacaaggcg acacaaggcc 360
 caccctgtggc tgacgcgccc tccacctca ctccatcccg gggcacagct ccttccgctg 420
 gtgcttagga aaaggcgang ctttggtaat tctcatcttt gtagttctgc ttigaaaaga 480
 aaagggggcc ggcaccggcg gttacgcctg naatcccaac acttttgaa ggcccaaggc 540
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<210> 7575

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7575

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 ttggatccta gcaacctcca tttttcttc taattcatga agaaattcac catcggcagc 180
 tattgatgaa atggcagtg aacttttggc actaagaatg gctcgagcaa tgtactctag 240
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 ctgtagcagc ttatctgcaa ggncgacttg gattagccca ntattaangg caatactaaa 480
 gagtcatcc ttggatcgct gngacaatta agcattggtc aaaangaggc cngctcttca 540
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<210> 7576

<211> 583

<212> DNA

<213> Homo sapiens

<400> 7576

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 agtaggcttc ctggccccct caaggcacct ctactctcag tgctctcaga gcccacatgg 180
 gatgtccctc acacctggcc tggaagccag agggcaggaa gccagcctca gcctcagctc 240
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 gctgaaagga tgagaacaga ggaaaccaag aagcaggcaa gaggcctggg acccaggga 480
 nggtcaaccc ttctgggctg nttacctggc acttgcataa agggatgtgt aacttaacat 540
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<210> 7577

<211> 584

<212> DNA

<213> Homo sapiens

<400> 7577

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 ttagcatcat gaggaagaaa ctttttaagt caatacagat tataatgaac acctgccatt 180
 cataaaaatg taacatacat tctattatac tatgctgatg agggaaggga agctaagtga 240
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<210> 7578

<211> 595

<212> DNA

<213> Homo sapiens

<400> 7578

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ctagcccatc acagctagcc cctgaagtct gccttcaggg aggcgcagac aactcacgcc  180
agccagccca gggcaggggc aatatccgtg ccagcaagtc tcggctgaga gagccttttg  240
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gcactatggt taaaagcact gactcggaat gtctgagctg ncattctgct ctctttctgg  540
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<210> 7579

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7579

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taaggtagga ccactaaata atggttcaag acagccagtg acacttcaat gcgaagggtga  180
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cttttggtgg ggggtgcactc ttggggctctg ccatggntta agctgcatgg gcactgnntt 480
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anncttgaaa a 551

<210> 7580

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7580

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tcttgnctg acatgaagat acngggcntn 570

<210> 7581

<211> 543

<212> DNA

<213> Homo sapiens

<400> 7581

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agttttactc caaaggagta ggatcattca gattttactcc aataaaaagta tgcaaccctt 180
aagcaaagct tttcttcatt taaaaggaga aaaaaaaaaa aaacctatac agtagtcttt 240
ccttatgttc attgcncaaa atgagttctg cttttanaac tttgacactc aatggttaat 300
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cccaaagaaa aggcctntac ctatcanggt tctgcagcta tgcntggatt cnggttaaag 540
ctg 543

<210> 7582

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7582

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tcagtttcta aaccagctta ctatTTTTct ctaccgaacc tcccccttgg ggatcttcac 180
aataaactgg cttcagaaac tatttctctc tagtttcgtg ttaatacaag caacagaact 240
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cgcccatcc cactgaaaca acatgacttg cttgacattc ttcntttca tgccttaaag 480
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<210> 7583

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7583

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tctgagaata ccagtaaggc actgaatgca aataccacct gaaatatgaa ttatgtgcat 180
ttttatatct ttaatatcca gatgttcata gttattttct taaaaagtat ttttaataaa 240
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agttttccta atgaaagctg tgatacactc atgctcaaag gtactttatc cttaggaaaa 360
aatagcttat atatctggat gttttaactt ttaaagatat tttgtttcac cacagtaata 420
cgtcagccat aataaggcat aataaagcat gaagtcatca tattaaataa tctgacacaa 480
aagcttaaga tcatatcacc aattgggtaa ttgnataaaa aatttttaag tctattaact 540
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<210> 7584

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7584

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aaggcgttca atgtcccga gagaaagtaa ttcacccttg ggctcttcat cactgtctat 180
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ttcttcatcg gaagagtgtt gcacatcaat ccattcacca tcagcatcct cctcctcact 420
gagactggta ctttcccatc catcttcac attttcagca ttctcttctt tctcaacttc 480
cagaacttct gctcctggaa tgtaatcttt agcatctaatt tctccatata ttggactctt 540

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575

<210> 7585

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7585

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ctccccctcc tccctccctc cacacacag cgcagaatac actcagccac acacacagag	180
gcacgtgcac acccccttcc atggctgcag gcagagggct ggtgactggc ttctaagcag	240
gacccctga ctgccctgaa agttcagtga gccactgggg ctagacacag gcctgggctc	300
agggggctcc gctaaaccag aggcctggag gagcctggct gggaggcagg ttggggcttg	360
gcccagtcct ctgccgctcc agcttggggg agataggctg ctccctctga ggacgtgcat	420
cctgggaaag ccttcttcag gcagaatgaa gacccatggg aaanggcant cagtggggan	480
gcaaaagaaa aaaggggaac aaggaaatgt gcctggctta aaatccactt ggtacaccna	540
aatggggggn cctngggtaa acagtc	566

<210> 7586

<211> 288

<212> DNA

<213> Homo sapiens

<400> 7586

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ctgtggggac tggctggaag ctgctggcag ggtggagtgg gctggggccc cggcagattc	180
agatcgaggt acagcagcgt taataatact cttggagcgt taatactctg gggaggggca	240

ggcacttggg gggccctagg gcatgaaggc acttgggggtt gnnnnnnn 288

<210> 7587

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7587

gagccagagt ctgctctgt caccgggct ggagtgcgtt ggcgcatct cggctcactg 60
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 tacaggtgcc cgctctcag ccaggccaat ttttgtattt ttactaagac ggggttgac 180
 catgttggcc aggctggtct tgaactcctg accttaggtg atccaccgc ctcccaaagt 240
 gctgggatca caggcatgag ccaccgcacc cagccagaag acagctgctt aaaaaagtaa 300
 ttctaaaagc tctgacgttg gatccctct gctgcgtttt ttgttagtat caaactgtct 360
 ttcagagggt taaggagaa aacaaaacc atgatgctcc ttcacttgct ctccgaggcg 420
 caggcgaca gaaacagcgg cacggaccac agaaatgcag gacggactnt tctggttcca 480
 cgccacgang ctggaacatn aancccagt cctggggcac acacangctt caggaaacta 540
 acttctttca tcaagttaaa acatn 565

<210> 7588

<211> 501

<212> DNA

<213> Homo sapiens

<400> 7588

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 ttgaactaat ttatactccc accaacagtg cataagcatt gccttttctc cacaaccttg 180
 ccagcatctg ttattttttg actttttaat aacagccatc agccattctg actagtgtga 240

gatggtatct cattgtggtt ttgatttgca tttctctaata gattggtggt gttgagcctt 300
 tttcatgttt gttggctgca tgtatgtctt cttttgaaaa gtgtctgttc atatgctttg 360
 cccacttttt aatggggntg gttttggaaa tttggttaag tttcttatag atgctgaata 420
 ttagancctt ggtggatgna tagnttgcan aaactggcat tctgnaantg gctggtcact 480
 ctggntggaa tttctttgct g 501

<210> 7589

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7589

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 aatttcatgt acttgaattt aaaaactcta agtgccaaca ctgtaaacad tttgtatctt 180
 ctcaactaaa ccttgcgga taacaaggaa aagagcaaag ataagcagta ataattttgt 240
 gtataataaa gctgatctat ttttcagctt ctggttttaa tttaaataag attttaaaac 300
 aatttttaaa ggtccatgct acaattgtaa aggctatttc tatgcacttt taattctgga 360
 cacaattttc aaaattgcat gatggaggta agaattttta aaaccaccg gaatgtaaat 420
 aacagggaaa gaacattttc aaatcaaagc atcaaacata cattcagggc agaaatctag 480
 accactnttc caggttttaa gccatcatgg tttaatatnc actntntgac cggaaangga 540
 ccgaaatcc ccatttnntt 560

<210> 7590

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7590

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 ctgcacactg agagacttca aactttcctt tcacatcaat tctatcttct gcaatatcaa 180
 ctgtgccatt ttcagatttt aatgttgatt tacattttta aatatctttc cttacttcat 240
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 atgtaatctt gggcctgttt atgtagaatc tatgctttct tgaattttat tcagagtata 360
 agcagatggt ttctcttgaa atgattcacc agcactccaa caagttctcc aattcgactc 420
 tcatgggttg gctgtttgct gaagaggcag acaatggagg tcttggtggc nttcgnatgg 480
 acctacaggt tggnccttnc attggagacc tcgaccagcc aatgnntaga gggatagctc 540
 acnctg 546

<210> 7591

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7591

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 aggcccctgc ccggggcagg gcagccatcg gctctttgcc ccagtaaaag tttctcctta 180
 gtgagactag aaaacaaaaa caatgaaacc caccacaaag ggaaaaaaa aacaaaaaac 240
 aaacaaaaaa aaaggaaaaa gaaaagaaaa aaaagcaaaa gtactggacc attctgtgat 300
 tccgtttaac ctcggccact tcaggaacgc tgcttctgtc agcttctctc tggcgctgct 360
 ttaacctaaa ggactgagga aatcagaact ccagaagct tttcaaaaa gtcataaaac 420
 agaaaaaaa aatcttcttt tggctgcaaa attcccaagg ggggtggtga atcgctttt 480
 tcctangga caagccggcc cgttgactna ncanggaatg gcntttaagt tnatccantt 540
 ccggcagttc a 551

<210> 7592

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7592

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gcaagtttta tggttcatat tcaaagttca atctatgttt cacattttta agttcagaca   60
tatcaaagcc taaaagtaca gaaggcttgt gattttttat tgctttcatg caaatatacc  120
ttctttttcc aaaaaatgaa gccacatcaa ttttccacac ccaaaagagt gaggacaaca  180
gttctatttc ctttttacta ggatatggtt tcttatggaa ataatcttta agaaattgct  240
tcttttcttc ataagaacgg cttcatatt ttttaggata taatgctaaa atctgaagag  300
cctcgtcctt gacaataggt ccctctgttc tgctttcatt ctttgtctt ttaaaaggca  360
caacactcgt caccttttct ggacccgggg ctgcatcggc atttaggatg ggaggctgct  420
cctcccatg ccgctgggtc tcggccccta agtggccatc aggcagcttt ctcttaacag  480
aaaaactgga atcatgcatn acttcaccac tgactaaaag cagntcactg gtggngaata  540
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<210> 7593

<211> 584

<212> DNA

<213> Homo sapiens

<400> 7593

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cttcagaaac aagaactctt tatitggtta aaaggagcac agggacatat gaagaccaga   60
gagttacaac tttctcttga gaagaacaag gcgtaagcat tgaagaaact aggagataag  120
acagaaagga gccaccattt tctatctcaa gcaaaccctc atcaatgaat atgcgatcac  180
tgatgggttc caaccattt tcacacgatt tcgtagttcc tttccttctt aaaatgtctg  240
tgtgctgtgc ttgtctccac actgatagtg actattcacc tggctcaca cacatgacct  300
ctttgtatac taatatagtc agaggctaaa tacagctagg gaaaccttag actaactttg  360
caactatctg cctccagtgt caatcccaaa cccgaacaa ccatctttgt ttagtgggca  420

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agagagggac cacattgatt tcagaaccct cagagagctg cttctcatta tataggcaac 480
gtgtgaagac atatgattta aattggggga tgtcacttct tttgggtcaaa ttgactggat 540
taagggttat gccctattaa ccaaggtacc ttnttccaaa actg 584

<210> 7594

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7594

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ttacgtagaa gctatcccca ttggatagag cagggcttgg cagaccccg ctttgaatga 120
acaagtcgac ttgctcagat aatccttga gggaagagac aaatgcgagg agtgtctcca 180
cagccctgct ttgctttgct ttcgtcactg tcgcccagcc atcgccctctg aaggcctgtg 240
aagttggagc ggccagcccc agaagtgggtg cccaaagcct gtctctcagt ggcctcacct 300
ctggagggct gggcaacagc actggtcaga agttccgaca gctgaccacc ctcttcggct 360
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gctgagctgt cccgaggcac cgctttcggt gggaagggtga ccaagtctga gttcttgnct 480
tcactctgat cactgnctg cttcttgnng catctcaaga gagtcatccc tgacnaagga 540
ngccccgcag gtctcacagc ggaaaggcct ttngntacga tcttg 585

<210> 7595

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7595

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tcttccacat tccttatact gatagatttc cccttggcta tgatttcct gatatgcaaa 120

acagttccaa tccatgggtga catgtatata cattcttaat atttataaat ttttacttgt 180
 ctatagtcta gtattgttat accatgtgggt ctgtttataa tcatgggtttc cattctgtga 240
 gtcttcagat tatgagtcca acacacaagg ggatgtccac actaacctgt gtgaactctc 300
 tgatgtacaa ggtgtttgac ttcaggcagg agtttctgat tcactatact gaaagggttc 360
 tctgatataa aatgagggtct gacttcagag aagccttccc acatctatta cattcatatt 420
 gcctctccta tgaattctct gatggctgtt gaatgctgat ttgtggtaga atttttttcc 480
 cattcagtag actcataggg tttctctcct gaatgagtct ataatgnaca gtgaggtagt 540
 acatncgaga naangctttt cccctcata cattcaa 577

<210> 7596

<211> 582

<212> DNA

<213> Homo sapiens

<400> 7596

cttgtgtgaa cagatacca gcacctccaa caccacatag aagctgaaag aggggttgag 60
 cctctcaacc cttgtcctgg gagcttcaag tatggtagagg cacaactttt attaaaagag 120
 tttacaaaca gaactattaa acacacacac acatacacac acacatatac acacacaccc 180
 caaaaaaaga tacactctcc acgcccaccc acagatagga atgttggtta agggataatc 240
 cctcaataac agggaccgat ggcatgtatc cccacagcct agagccgaga caggctctgt 300
 cttcatcact gtcctggggc cagcacgtct aaggcaaaaa cctgctggga agattaaagg 360
 agctccagaa aggaagagat ctttcaggtt gaggtttttc cctaaggtcc gtgaggcagg 420
 tccctagagt taaaggcaca ttattggaga aaaggccctt ggatgtagag aagaaaggac 480
 tcttctctgg caccaacagc aataaaattt actggttgaa aacatcctgc atctgggaga 540
 aggaagaagc tttatatata aatctcttct agtttcttgg ct 582

<210> 7597

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7597

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ctcatggcca gaattgaaaa tttctcctc cagaaattta gggcacccaa ttattgaata 60
cccttatcat attgctttta atgacagaaa gattaaagct ggcacacctt atagtatact 120
aagcatgaat gtaaagtatg agaataaata ggagactttc ctaaagtca aattacaaaa 180
ccgctcaaaa ctttgtaatt gtgactcatg caaataacct gttagggtcaa cttaatatta 240
caaatactgc atcagctcgg tgcctttata tcccttttca taaaaaagaa attctcactc 300
cactcctgaa gccagcaaac agctctggag gaattacctg tacaccaag tgccacggtc 360
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aacacacaat ggtgtacaca cacacacaca cacatccaca cacaccccat ctttaggatt 480
ggaagctgat tccaagcctg gccttattct atctaaattn tcttgatat cctgaacacc 540
tggtggtcac aaaatgnatc ttttacctcc tn 572
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<210> 7598

<211> 456

<212> DNA

<213> Homo sapiens

<400> 7598

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gggttttagga aacttgaaa ataaataatt cagcataatc caaaaataac atactccttt 60
taaccatcat tttttgagt ctctctagaa cactcaaaaa aatgaactgc actttaaaag 120
ttaattcatt aatttttaaag gcaatttaa taatctttac atcttaaag aacatcttta 180
aaaagcaact tcagaaatca aattgaatat caaatttggc acaaaaatta aggaatttcc 240
ttaaaacagt tgaaacaaag ttaaaacaag gtccttaaaa tatctctgaa tgttttatac 300
agagataaat gttttataca gtgtttaata cagtgtttta tacagaatgt tttatacagt 360
gttttcataa aaacactgcc agnnnncccc ggttacacct gtaatcccag cacttttngg 420
ggccaaggcg gngagatcac ttgaggtcac gagctc 456
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<210> 7599

<211> 584

<212> DNA

<213> Homo sapiens

<400> 7599

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cattgaaagg gctataaaat tcaacatact gacaaggaag caacataatc acatagataa 60
cgccctctgct aattgctttt acctaacttc acccttaaag gtgagctgca cactcagcta 120
cacaagtttc tagactgtgc gatggcttca aggctggcct accacaactg actgaaaaaa 180
tgtcatgttg gtaagctgac actgacttgt atgtttttta aaatggagag acaatggcaa 240
attgtacctt atgtccttat agaaccctaa ggatcattct gagtaaagt gaaataaata 300
aagtgatcca tgagtaaata caatctctgg gctaacttaa acctagaaga gtgagccaag 360
tgagcactaa caataccact tagaaatgtc tagaaacatc atttctagaa ctcagcttgg 420
gagaccatat cttgcctgaa tatgtacata tatttacaaa atattccctt ttggcctctg 480
gaatttagcc attttagttt ggctgttagc tgnnttcttt ccatatgcta gccaatatctg 540
cagttataac tatcattaaa atactcttat gcatgaattc caat 584
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<210> 7600

<211> 592

<212> DNA

<213> Homo sapiens

<400> 7600

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cagagtatca taaaatactg gatctcgatg agcagccttc ctctgaaaat gcttagtttt 120
ggatcctcct ttaacaagta caacttttct tttcaaacia gtacaaccaa acatgcagtc 180
tggtcggcgg cagtgagcag gttggcgctt ctccaaagct agactggaac atacacaacc 240
cagtcgacag aagtcattgt tgcagggagg ggctcgtttc cttatgattg tgttgatagg 300
tttagttttg agggatgctt gagctgtaag tagagttggt aaggatacat ctgctcgtc 360
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ttctgtgatg tatgtccttg gttttccttc ccaaagtgca cagtcttcca ggtccattag 420
 cttcacctga gatttagaca agcctggagg gcgacttccc tgggtgctggt gctgctgctg 480
 ctgtgcctgc cgnaaactaa tctggtttgg aaatatattt catccaaagt tggcncaaca 540
 aagttatcgc ctggattttt gaaaagaagc ctgaanaatc ttgggaacct tn 592

<210> 7601

<211> 592

<212> DNA

<213> Homo sapiens

<400> 7601

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 acagagggca aacaggctct gagccaggcc tcagcttttag aggcccatcc tggagaggaa 120
 atggcacttg cagggaacat gagctcaatc actattgctc actaagcaca gggtcacact 180
 ggagtcactc tagggaggct gcgaggaaga aaagagagtg cacagagcca tgaagcaact 240
 actttaaaatt ctgaatcttg ctgtgttccc actgagcatg ctgccttcct agagcaggcc 300
 ttggagccat cccagggact aacacagatc cttcctgggg cgcaggcttc tcacactagc 360
 gtaggtgccc taggtcatcc tcatcattgn ttatcatcac agacttcttt ctgcctgcca 420
 gatatcttcc ctacttgnng ctttaaaaca ccagcaggan gggaagtcaa nggaatggtc 480
 ttggtaagta taaatccata gcaaaaacga tttgagaact ggatgcttcc caaggttgca 540
 ggtgtttgga tggttcctga atctttatcc caggatcttg aatggggggc ct 592

<210> 7602

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7602

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ttaaaaaaaaa aaaaacaaaa aactaaaact gccacaaata ctgaanaggc aagctccagg 120
 cctggccttt ccagctggag gcccgntntc ccgtggaccg caccgnaaag cccagcccgg 180
 cactgntggg tgaccgtccc atggctggtt cgccccggac cactntgntg aagtcagggt 240
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 tccctgaaca ccttccatnt gggctgaact ttcttgggaa tgtataagtt atctggatga 360
 aggaggtggg agatggagaa aantaaatnc caagaactaa agtgagggtc ccaggacctn 420
 tggtaggcagn tcagcccctg gggcaaaact ggcctccang ganggaaccc tgattatcca 480
 aatactngnc ttttgaaant tggtttcttc anaaccttgn cctgggggac tgagtntaaa 540

<210> 7603

<211> 589

<212> DNA

<213> Homo sapiens

<400> 7603

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 gaggcaagtg gagactggct gtctgtaggg agtggagaaa tggcagggtc agcttgggct 180
 ggtgtcctct tcctcanaaa gtgctgtggg tgaaccaga gtctcaggga gcagaagccc 240
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 tccacagtgc gctccatggc gcgcacctgc tccggggagg ctgtcaggaa cgccaggggc 420
 ccgatgcgct gntccgcaca ggagtggcag aagtagcccc cctggtttcc ttctgtgct 480
 ataggtgatg agcacttttt catggttaagg acgggggtcac anggatggc attgtgcact 540
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<210> 7604

<211> 584

<212> DNA

<213> Homo sapiens

<400> 7604

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aagaaaaaat gtctattatt tattacacaa taattctgac caccaacaac caacggcggg 60
ggcgggcagg agagaagaac atcttgcttc tcaacaaact ttcctccctt gctttaacat 120
ttttgaggat tctttcccaa acctattaca cctgtattat gatggttaca aattttccaa 180
ctcttccact ccttccagtg cattatTTTT agtatcttca ttaaacgggc aaaaaaaaaag 240
atcccctact tgtaataaca aaacaatgtt ggaaactgtc attaaatcag gataagtga 300
aacagatct gttcccagac tcgcaggact ataagtttag gaagtacaca aaaaaattaa 360
aaattaatta cacaatagga tacattaaat atgtgcagct ttttgnatgt gaatcatacc 420
taagtagttt taaaaacaaa tggatccaac ccatccacca actaataaag accaaccgag 480
tcntncaaag gaaaatcaca cttttgggt tactcctact tgggttaaga cccttaccat 540
aaaattgctg catgganatg gtctntaatn caccggtgaa tntt 584
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<210> 7605

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7605

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cacacttgca tttttttaat aaggaattta agatccatag tatctttaat gctcgaaga 60
gacacaaatt caaggngata aaaatattaa ttagaagaca cataacatgc ctcaagtata 120
tcaacacttg actccacaaa caaggcataa ccatgaaaac aacactccct ttattttggg 180
ctcccaaaat caaaagttag aactaattta tttaatcaca gatatttagt atactcaata 240
atgcactaac aatttcttta aaaaaacact aatactgtnc agtatttctg ngtttttagtt 300
tttcccacag ctgttgaaaa tticagcctt gatttgaaac atgacctgca tgacaggcta 360
taagttgtca atagttcttt ttctttggaa aagtcagctg tggcatttac tcacttttagc 420
agatagctaa aagggaaaaa taagggaata atntnactg gacctgcagt naagttttgg 480
aaatgccagg gtcaaaaacc gatgaaccac cnttgctgga aaatnaaagg tntgcattgg 540
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gctaaaaana g

551

<210> 7606

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7606

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gggtctccata tacatttatt ttgtgtagac aacaatgact tttcaccatt tcctttcctg   60
tggttccatg gtctcaaaa tggtaatttc atttatacat agcaaaaagt tcacaaaacc  120
tttcagcact gtacacattt tcacatttgt ttaggaaaca atttgtttag gaatacagct  180
agctgatttt cttctgattt cttccacttt tggaatccca cataataata atgttaaagt  240
ataccaagaa gaacaggaag ttcaagcaag atacaaaaca caccaatata gaaaacaagt  300
ccggtagttt ctgaggagga tccagtgtga cagtcatcaa cgtcagaagc accatagtga  360
tgactgagat aagaaacaaa tattgtataa ttctggaaag aaatgtaaaa catggaagat  420
atttcctcac agaaatggaa aaggatttca actgcagtct tcttcagaag tcttttcaaa  480
tattggaaaa ggaagttcca caagctntta aaaatgccat ggtggcacac cganggcntt  540
ggagtcatcc ttataaaaag                                     560
    
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<210> 7607

<211> 421

<212> DNA

<213> Homo sapiens

<400> 7607

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caagttgatt ttattaacaa aaagtgcaaa ctattttgaa caaaagtaaa ctatgagtca   60
cagcattcag caagacatca gacacggaag agtgaacaat attcactaag taaaatacag  120
cagatgagat gtctctcaca tgtatattta attattcatg ctttttcaat agtctcttag  180
tcaactttca gtgtaatttc cacaaatata tagcagctca aacacaaatg caggagcaca  240
    
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atggcaaagt ttggcaactg ttttgggcta attatgagta tgaaagaaaa ccctatatca 300
 cagtttcacg ttcatgtaag ccactgtgca acatgaatga atctttaaat gtgttgacac 360
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 c 421

<210> 7608

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7608

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 atgatcatag gaaacaaaat gaggacagag gcactctggta tcttctaaaa gtggtacaaa 180
 actcccgctt gtcattgcat aaagctcccc atctggtgct gcgaccacc tccaagagaa 240
 agccaaagga acagaccaat aaaaggggtc cggggtgctt tctctatttc actcactcct 300
 cttatttgct aaggagctcc aataacaaa agaaatggtt cctagaagaa gagaactaaa 360
 tctccagaga gctgctgggg cataccgata aaaactggga gaaacaaaga ctgacagcag 420
 agaagtccaa tactgctgct aaagtttctc agcctaaatc cgggaaagag ctgggatcta 480
 ctgntttgtc agtaagagga cttttgggcc tggatgacct ttcacttttg cttgatgcnc 540
 cntntaaaacg gtt 553

<210> 7609

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7609

gcaagtttat gaatagttta ttacatttca gtaagtgtat tgtgaatcaa taaagcaaaa 60

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 agtacaggaa gggatatagag aaaataggat tttcatgat aaaaatttta agcatcttag 180
 gaacacagac ctaaagaaac tataagacac aacggaaatt tcagcagcta cttaggatgt 240
 ttattttattt accttttttt gcccaattaga attagttatt tggtttttac tcttaaaaaa 300
 aaaagtattt tcaactcaag tcagaggagt ttgccaaaac tgaatattac ctcttactga 360
 ctttaattatt ctttcaattt cttgtatata ttcctctctt gcctttgaaa agttttacctt 420
 actagctata tatcttatat cactgtcgtg gtcagactg ccctaacaaa ataccatagg 480
 actggggngg tttaaccncc ggaaattaat ttcctcacag tctggggatt agaagtcaac 540
 tcaaggngta agctg 555

<210> 7610

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7610

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 acgttaccac taataaaactt attttacagt aagtggttgt atgatgccaa tactgactca 180
 aaccaacctt tggatagaaa agtgtttgag gaggtaggta aagaatgaca cttccccttc 240
 ataccaatgt ccattaagca gattgcttat ttaaaatgtt aacactcadc acattttatc 300
 tatgttgaat aaatgtgggt ctgtgtgatt gtcatittata tctgatcccc aaatagctca 360
 tacaataatc cattcaatag aatggaatta aaactgttca gaatgatttt ccaactagca 420
 aatataagta tgcctgggtta agatatcttc cttttgtaga aatggtacat tgggatggga 480
 tagtggtgct ggcacagaag gccaaaatat tcctagacga gctatnctca aaccognant 540
 ggcttttaca tggaagagag 560

<210> 7611

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7611

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gacttccagt tccagaagtc gcatctggtg aaggagaaca cattctagca atgaatcctt   60
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agccctctgg agtagaaact gggacaggaa aggagtcgag aggcaaagga attctagcat  180
cacctgtaat tttctgaaac tggatatatt gcatttgccc tagggcattc tgcttcggtt  240
ctggtttttc atcttcaagc gccttctttt cttcttttagg tggattacta acagtagaag  300
tcatctgggg atgacctagt aattgaaaat ctgactgac tatcccagcc attgtggcaa  360
gctgccaag cccagcatct ttaaggagat ccaagaaagc atgaaacttc tgaaaagaat  420
tctcaatgct gcccaaaaca ccttcatcat ccaggatcat atttgtcaat gactgtgcat  480
gaagggttc agaccaagag aaatttatat ttcttaactg ggcattttca tggtnagct  540
tactggctcg ttatta                                     556

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<210> 7612

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7612

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aataaaaagc atgaacatca ttttcatgta catatgtgta tacacaaaaa gatttgtgaa   60
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tggtcccgagg agtaagagat atcattctga ggaacaccaa gtggaagcct ctaaaactgc  180
ccccctcccc agccaaactc tatgatcaag atagtaaag aaaaacaata ttgtgggagg  240
ggtagtgagg ttataagat ataaaaaagt aaaatatatt tcatatcttg taaaccctac  300
tatacatatt agtgcaggga gccaaaggcc catgggacat gacaaactca gcattccgct  360
ggaggctata tgatcaaaca gcaaactgtt tatcatgaat gcaggatgtg ggcaaactca  420
cactgccctg ccaccattgc cacagttacc atattaacag ggcttttnc tggacatgtc  480

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ctaggactta agctgggact tgctnggaa ggattttccc cnttactgaa tcccccgttt 540
ttccttgggn ggatcctt 557

<210> 7613

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7613

attgtagac cagtaatgca gttttcatat tttgtataac aaaaaagttg taggactttt 60
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ttcttatatt cttagtcaca aagataacta cgtttttaca agtcgaaagg ttaataatag 180
cagctagcat gaattcagag ctgctatgt attgagcact gggtttaaac acatatgctc 240
tattttatta agtccttata gtaggaaagt gaagaataca ctagtcactg aagttccttc 300
agtgtcaag actcaagtgc actatagcaa gacaaacacc aggaaacatg taactctgct 360
tcgaatactt tagcaagtga atggcccagt ttgggaaagc aagacaaaca ctggatccat 420
aatggctttt tacacctgat tggaatgcag aaaaaatgga accactaact actaatatta 480
tctttgccag caggtgacag tacatacctg acttcagagg attttattgg aacctcatag 540
atgatggtaa taaaacn 557

<210> 7614

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7614

gaaaaagagc ctacagcacc cccacccta cctcaccact ccccaaacca gctcaagagt 60
taaagccagg aagtggggca nactggggag aggaggcttg tgtggctccc tctagtgttg 120
gttcaactgct gtgcagcaca cagcagtatc tgggtcaatg aggacatggt cctagccttt 180

ctttctccac caggaccctg acttatctgg ctggcccagc atggaggaga aggaaagcgg 240
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gggtagccaa ggtgactggc attttgatcc cagctgaatg aagactggat ttgaatgcag 360
tgccagggtt gttctgtaga caagagcgaa cagtaccctg ttcgtccct tctgcagtac 420
cctgaggaag gagagaggca cccagggcac gaatgcagac aacagaggga ctggccaggc 480
tatcccgttt tcacctgtct gtgccacaag ncacccattc catacttcat gtcctangcc 540
aaagctggcc atcctgggna ccccat 566

<210> 7615

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7615

aagtccatta cagggcacat ttattgactc tgggtatctt cacagnnga tcttcaccac 60
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aattcttcca gcataatatt ctgatagcca gngtatgact ttggctttga cttgnttcta 180
cacaggggggt ccagtcattt atttctggaa cttgatcagt ctttttccag gtatataagc 240
aaatntttcc aactccaat cctactgnaa ccacgtatcg ttganaaggg nggagcactg 300
ggcanacgtt gacagctgnc acagccccac ccacgtccag gactgaggag cagggggccaa 360
tgttgggctc aatacagtca tcagnggagt cgcacacacc ccagacaacc acctttttgn 420
ctcgactccc agtgaagaaa tacttgctgn caggactnca atcacaagac ccaataattc 480
tactgggcnc agaantaatt tggtngggaa ngcaaaagct taaaactggt tnaactaggg 540
gaaaatggga nccggttttc 560

<210> 7616

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7616

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gagagctctg catacattcc cacttttcct gtcaaagtgg acaaaatgaa gagtctcatg   60
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atgtggatgt gaaccaactc aacgtgctcc ccagagactg aagaagcggc gtttttagagc  180
tttggtttca gtctcttgga ggagattttc agaaatggcc aatttatgtg caaaggtgac  240
ttttctaggc acccaggaag gcaaatttaa gctccgagct gtatcaactg cattctgttc  300
ctatcatcag aagtctcaga attgaacagt aaatgggtgcc tacttggtct cttgtcaaaa  360
taagtctgca tggctctcac aacaaggcag acagctgttc gttccgctgg aaaggaaagg  420
agatgaactt tgttttgcct agcgttttgg gaatcgtgac cacaatttaa tacaatcagg  480
tgtagtttgg ttaaggaatt atcaaagatc atacttggct gtcanaatgg aattganggc  540
cgataggcag actttgccnt atgctanccg aa                                572

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<210> 7617

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7617

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gagacagagt cttgctttgt caacaggctg gagtgcagtg gcgtgatctc ggctcactgc   60
aacctccacc tcccgggttc aagcgattct cctgccttag cctcctgagt agctgggact  120
acaggcgtgc accgccacac ccggctaatt tttttgtatt ttagtagaga cgggggtttca  180
ccatgttggc caggatggtc ttgatctcct gacctcatga tccacccgcc tcggcctccc  240
aaagtgttg gattacaggt gtgaaccacc gcacccggtc tggaggtctt aatgggtccc  300
cagagtcacc cgctccacct gcagagtggc agtaccaccg taacttgctc tacacaggca  360
acaaggccat tttcagctgt tactcagaaa cttgcttctt ggtgatatta ggtttaaaag  420
acaagaaaga aatcttattc tacagggttg gagaaaggga aaattataac acaaaagccc  480
acttcagtct ctgntgattc tgcaagagtc acagctgagt tctgaggccg ctttttttca  540
ccagcccatt tcantggca gcacaagg                                568

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<210> 7618

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7618

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atctccaaag tttatatttat atagcacaca tttatatgga actgtaacag tgtttcaaca   60
caagacattt gtgcagaaaa ataacaggaa ctcttttggt aggatgattg tctctgtttt  120
atacatgaaa gagctagtat ataaaaatag tttttaaac aaaggtaac tttcttattc  180
tatatcaaaa gtacaatact ctgagtggca aagaaccagg gaatctgaaa gaattacctc  240
cttttactaa tccaagactg gcagccaaaa ggaacactgg cctgcttcag actatttacg  300
attcaacact gaaaactcat taggagaatt aatctgcatt tgaattttat ggaatcatat  360
actgtgtgtg catacatagc tgtatgtaca tctgtgtgca tttctgtgtg cccatcacac  420
gaactcactg gcagccagtg gctagagaaa ggcaagcaaa ttttggttgn atctcaagcc  480
tgagtgtatc tcacgacaga actggagagt cnngcngaaa agactttaac attanaggaa  540
ttaacttccc ccnggacacc ggcctttctt                                     570

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<210> 7619

<211> 500

<212> DNA

<213> Homo sapiens

<400> 7619

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agagaagaaa acaccatctt taatcaaccc gcctgcacag aaaccaggag agcactcccc   60
tccttgcaag gtcccagtga aaagagaacc tgggtcccctt gcaaaaacca tcttataaaa  120
acaaaaggct tcaaagcacc agtggctaca cccgttgagt agaaaggggc ttgggggaga  180
gttgggggtga gagaggtgag ggctggaggc agggctggcc cagtgaaggg cagtagctta  240
gcctgaggga gctgcccccc tctcaagctg taccaccagc ctgggagctc catgcctgtg  300

```

ggggccagag gaactcctgg gcctggctgc ttgcatttgg gatggtgggg tggggttgcc 360
 agccttgctc aggatatttt ggccttagag agtaggggaa tgatagattg gagggtagtg 420
 gganaagaac ggaatgggtca ccacagacag gcttaagtgn caaacatntg gnccatttng 480
 gggcccccca antnctcatg 500

<210> 7620

<211> 372

<212> DNA

<213> Homo sapiens

<400> 7620

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 aagtaacaca gacctgaggg gagggggctg gggactgcac ctccctccta ctcatggngg 120
 acagcagtgg ggactagggg ggggcaggag aggtggctga agcaaggcag cagtaatggg 180
 gccacgacgc cacagagcca gctccgtcct ntcccanacc ctggtgggag tccctgtggc 240
 ttgggggtggg gagtggggga cccaccccag gccctccctn tcccttcctc agacagcctc 300
 ctttngggct caaccattt cttccgcagg agacttgagg cacacagana ggangaagtg 360
 gnanaggang ac 372

<210> 7621

<211> 504

<212> DNA

<213> Homo sapiens

<400> 7621

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 gccacctcca cctcccgggt tcaagtatt ctcttgccctc agtctcccaa gtagctggga 120
 ttacaggcat gcgccaccac acccagctaa ttttgtattt ttagtggaga tagggtttca 180
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ccaaagtgcc gagattacag gtgtgagcca ccacacccgg cccccagcaa agagaatttt 300
 taacaactgc tttggctctcc agagccagtt cttggccctc ttcttactga tatacccatc 360
 tcaaacgtcc ttgctactct gngattggag aatatctgat caaccttntg gganccaana 420
 aagtagttgg gaaatgggaa ggtgggccaa naaaagaagg nagactcaat cggctggggg 480
 ttaccggggg attcaagtga ngcn 504

<210> 7622

<211> 576

<212> DNA

<213> Homo sapiens

<400> 7622

catctgttgt ggtttttccc tgatctgaca gctcagcgga cttcctttct ggttcctgag 60
 aaactggaga tgtgggctct tcctcttctt cctcaggagg caggggcagt ggctggaggt 120
 agtaactgcg gggcttgggc atggggtgtg tgtgatacag caggaggtga tgctgctcct 180
 cgtacttgat cactcttcgg tccactcgga ctgtcccaaa ccaggcccag gacaaaggag 240
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 actgtcgaac tttgcaatac tttctgatcg cttggctcct agctcttttt tcaagtttct 480
 ttactaaaat catgtatgcc cccttggctt ntttaaatcc cccaagggga tcatttgata 540
 ggncaaaaagc ttaccgttcc attggntnaa acnccc 576

<210> 7623

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7623

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 gaaatgtcta ttcagatcat ttgccattt taaaaatcag attatttggc tttttgccat 180
 tgtttcagct ccttatatat tcttgttatt aatccctcgt cagatggata ttttgcaa 240
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 aagcttttta gcttaatata ataccatcta tttttgcttt tattgcctgt gcttttaagt 360
 ttttacctca aaaaaatctt tgcccagaac aatgtcctga agcatttcca caatgttttt 420
 gcctagtagt ttcacagttt caggtcttac atttaagtat ttaatccnca aaataagaaa 480
 gagatttgaa anggatactt cagtccangc atagnngctc acacctataa gcctggcact 540
 ttggganacc aaggcaggag gacacntnn 569

<210> 7624

<211> 393

<212> DNA

<213> Homo sapiens

<400> 7624

aggtcagaga cagctggatc agctccagcc acatttatta caaaatagtg accgcagttc 60
 tggatatagaa aagatccctg acagcccagt acacctgcaa cggccccac cccacagagt 120
 tcctctctca ggtgcctcag gtgtggaagt tctcagattc gaaggtttcc tgccaggagg 180
 gcgctgtacc gggcagttgt gaggggcagg taggcacctc cagcctggtc cagaacgtac 240
 agtgggtcag acaggggtgct ggggtcgaag ccctcatttg ccatccgaac tttctgctgt 300
 ttgaaggctc ctgtggtggc caaagactcc tggagcctga ggaatcgggg ccgggcataa 360
 ggnggcaagt tctnanacac ntggngtgta nna 393

<210> 7625

<211> 508

<212> DNA

<213> Homo sapiens

<400> 7625

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atatgcaca catatcctaa cattttctac tggataatat aacagtaaca gaaaagcatg   60
tgttggtaca aaaaagataa ctatagaatt gaccaggctt attgaatatt ttgngttcc   120
catgtgttaa cactgagtaa catcctcaat ttttaaggnac tttaaaaatt gttttgtttt   180
tgaaaacttg ttttaacttaa cgatatttgt ttatagagtt aacataaatg tttgaggaga   240
acattacatt ctatacaagt gaggccctga cactntgaag ctgaggtcac agtttgnatc   300
aatatgataa atattcatta tttcattgna tagactgngt atatgaaatt cagtaatat   360
ttactggtaa caaatctaac angataatat gttaagaaat accaaattat atgnggggct   420
ctggcaaagtg aaccaacccg nnaaaaattt gacattnccg ggacacatta ccaggtttgn   480
cnaaaagncc ttatTTTTTTT agccttac                                     508

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<210> 7626

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7626

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gttagaaaat taatTTTTTaa ttgtgccgct ttcaaactat actgaatttt acatttctaa   60
agatgtaaaa actcaactaa tagaaaatat acatgaccat tctgtctaca tagataacag   120
aatctatgaa tcttgaaact aagtacatca atttcaaaaa gtattggtca tttaaacaga   180
atcaacaatt cggattgaca agaactgttc aaattaattt gacctgtaga ttctgagcca   240
tgTTTTTatt aaagtcagat ctattcctaa atacaaaata ttttgaagat ttattaaaac   300
tgaatattac aatgcaaggt aaattaagac taaaggcaca taaactttgg tcccacctgg   360
gttgtcaagt tttagaaaac tgccacaaaa ttaatcttcc tgcatatttt cgcagtacac   420
tttctttatc tttggaaaaa tacatgcccc agttcctgaa ctacttganc cagctgnaca   480
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<210> 7627

<211> 518

<212> DNA

<213> Homo sapiens

<400> 7627

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cttccttgga gccttgtttt cttggtattc tgttgctaca tgtttcaact ctgggaggtc   60
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tttcaggatc ttgctattgg ggggtggcaca gacgggatta aagaagctca atcctggggg  180
cacctcggtg ggatcctcca gtttgaagga gccttcggaa tcctgggtcc gttcaacagt  240
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ccacaccaca ggctgacttt tgcttcctgc acccactg cttgnttnca caccaaccct  360
tgcangaaca cccttgaaat gttcttctg gacaccttaa ctaaatttg tggttncaa  420
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<210> 7628

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7628

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tagctgctca tcacagatgt agcctagttg gtctgtatta tccttgatg acaacggtgt  180
catgtgacac tatctagggt actgtggctc ttgtgcctga gtggacctg aggctgggga  240
ggccagactg aggggtcatt catggaaggg caagatgtgt gaactctaaa ggggatgtta  300
gcactaaaga ctgccagcc ctggtcctg gaggtactat acttgatact gtgccaagtt  360
tagcagtagc ctgtaccatg gatcccatca ggtgaccaga ttcttgcca aagcaaagtt  420
gagagaactg gccaaagtct cttcagcact tagcacctaa cccagacatg ccccttaagg  480

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aatggggaaa gttinctgnca cccagcacaa aaggctcaat gggaagttga atggccaag 540
aaaaactntg gccagntgt tg 562

<210> 7629

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7629

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cctactacaa ccgggtacac atcctggggg tgagcacaca gcaaaatggg gtgggacgtg 180
cagagaggta tagggtaaag gcaaaggaag cagaggatga gaccagcagg ccctttctct 240
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ctgtgcgtga ggtgctccat actggcctgg ctatgctggg tctccctcca ctgagccaca 360
ttaaaggcca cagaggctcc aatacctggg aatgttcaca aagtcacaa ctggaaaaaa 420
agcaaaaacc cacgggcaaa ataaattggg actggttggt acaaaagtct ggcttgncat 480
gggggaagtc gggcatattc ttgnaagac ttcacttaac cttnagtctg naccgacnta 540
ggaaccccng gcacaacttc ttccctta 568

<210> 7630

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7630

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ctcacaacag ccctgtgagg taggcagggc agggggtaat gttccattt gtacagatgt 120
ggagactgag gccagagag gccagtgacc tgcttgaggc cacacagcaa gtgagcagca 180

gagctgggac cagaggctgg ggtgggcccc acctccagcc cctggctctc tccactgact 240
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 ctcccccccc ttgcagtggg gccgcctggc agcccagcag acaggctccc acccccatcg 360
 gcagacctgt cccctccacc tgcgccctgc aaaaagccag cccggagctg ggcccaggcc 420
 tgccccctag cctgctcctg atggtgcctg ggncgggntg gcaagtgggt tgggctggaa 480
 cctctttctg tttcctgagg gatccttccc acttgggaaa aaaanaanaa ggnggaanaa 540
 naggaggagg aggaaaaanaa aant 564

<210> 7631

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7631

atttcaagt gtctctttat taaggaagga ggtaaaagga acataacctg agcgcaataa 60
 atatctagtt tcatataaaa ctagtattat acaaaattca gtttctaattg atcactgtcc 120
 atcagcaact tacaatcaaa taaaagacag atcaaagtat aagaaaattg tagacggtaa 180
 tattttccta atgacctagt ctcccatctt ggtttaaata tgagaaattc tagtagatag 240
 tggggatgga gctaaataaa cgaaaacgta aggaagtttag agaacgggga caaagactta 300
 aagatttttc aacgtaagca ctatttctcc tcaaccttgt tcagttttta atggatcatc 360
 ttattcaaca ggagccacaa cctgttttga ggaacaacca acaactgtgg gcctactgga 420
 agttcaaaag acgattgttc ctgtttctga ggttgacatc taaatgcang aaaattncan 480
 tacgattcat actgnacaat cntcaaggct acaactggac cagaaccntt ttcnttccaa 540
 agaacctgaa aatgatgcgt cct 563

<210> 7632

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7632

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ctttttaaat gcttttattt gccaaaagtt ttgggtgatt ttgaaataca ttagacatcc 60
cattcattga ggaaaaagac agtttattcc aaaacattct ttaatagtcc taaactgatt 120
ttgtctatca gagcaaaagg aacaaaggta aaaatccacc tgaaaaaaga tctttgtatc 180
atggaaatta tgaagctgga tttcttagac attaaagaaa ttcacagacc cacatagttt 240
aaaaatttaa tttttaagat taaattttca caacacatta tgactgtaaa tgagttacct 300
gaataccaat tattacctct agttattttt agcaaggagg ctggacttca ctttacttaa 360
tgctagctta taaatttaac ttgtataaat tatagtggga aatgtgtcct ggctagctgc 420
ctctgcccaa agcaaangca tctcccctaa gtgccacagt tctatctccc cgncttggg 480
ctccactgga acttacctgg gatccttntg gcccgaagcc ttntaataag agctcttgct 540
caatcaaaag ggggtg 555
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<210> 7633

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7633

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gagatggagt cgcactccat tgaccaggct ggagtgcagt ggtacaatct ccactcactg 60
caacctcagc ctcccgggtt gaaatgattc tcctgcctca gcctcccag tagctgggat 120
tacaggcgta tgccaccaca cccagctaatt ttttgtattt ttagtagaga cgggggttca 180
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aaagtgctgg gattacaggc gtgagccacc acgcctagcc accaccgact ttttttaatt 300
aacaaaagca cattgggtgta caaaaagatg aatctaatat cgaattactc aagttcaaatt 360
ccaagctcca tcacctgcta gatacagtaa cctcagcaa gacactcaag gttgagtgcc 420
ttcaaattat atctcaaatt acttatctgt aaaatggaga taatagtacc cactcacaca 480
aatggaagaa caattataat taacttggtg aatggtaact attatcttac tggcctgatt 540
ccagaatcat catt 555
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<210> 7634

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7634

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aaataccatt ctccatacaa tttattgtca gcatatttac ataggggagt gttcacactt   60
taaaatgcaa ccacaatttt caaattgttg tcacaatttc tccaggatta ccctcattct  120
cattttccga cttttggcca gttcacatt tgtcagattg ttcattgcag ttctcaggca  180
attctgatgt tgctctgaag gagaataaaa gttaaaagta ttcactgcca cccactctgg  240
gacaggcttg gttgcaaaga aaatggtgtt cctggcgctg aaggataact aggaaaccca  300
tcaggctgag ctggatagct ttccagagcc gaagctgaat ggacctgctg taacaatgct  360
gactgcgcag ccgcattatg ctgtaattct tgcaaggatg attgtgaagg attctgagga  420
aaccaggga taccggggag ggacaaaagg cctggaaaaa cagaactncc tgcacttgga  480
agtccagatg ataaccggtt gtgcaacaag ancgaggttg aaattggaac tgatgcttaa  540
ggcnaatcct ggaggactgg aacttgggat gggctttgca accnc                      585

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<210> 7635

<211> 521

<212> DNA

<213> Homo sapiens

<400> 7635

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atttactcag tgaattttatt gtaaaaataa agaaactcaa ttattccagt taatggattt   60
cacgttaa atgtttaactt tcaatgggct ttctgaagag ctgttcatag gatgatattt  120
ggaagagtcc tttccttaag gaaaaaaagg gtgaacaata aataaagagt tacttgcgtt  180
aacggtcacg ttatttcatt aaaagagagg aggagcagaa atctatgaca tagttgcccc  240
acatggcatt tatctgctgc aacagaaagc tgtaacactg gcgggcattt cacagtattt  300

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gcgcatagta aacttctgcc attgttaaag tctgagttag aattatcaat gaattctttt 360
 ttttttggct ttttaaattt tcttgntttt aaaaaatgga tttggggttt gcagggtgga 420
 acccaaacc agtctggcca cgttccgtga aagtgtggg ccaaattggtt cangttctgg 480
 tccccttggg ccngnggggg gatggggttg gggcatgnnn n 521

<210> 7636

<211> 573

<212> DNA

<213> Homo sapiens

<400> 7636

gcttttaaaa atcaaaattt atttcatcaa gataaaagat tacaatagaa ttcttcattt 60
 gntaaatcag taangatttt taaacaatac tcaangatga tattcattga aataatccaa 120
 tacattaatt tggagagtat gaacgcaatc tggcaatata aaccattaac tatgaaaaca 180
 ttctatgcct ntaactcaat aatcactatt ctgggaatcc taagaaaata ttcttatata 240
 tggattttta aaagctttat gggnaaaaac ttttactgga anggtatttc cactttttaa 300
 ttaaaaaaat tttccctca ttttggaggn aataaatatn ctgnaaaata tttttaagn 360
 aagaaaaagc ccccaaaata taatcccatc ccagaaataa ccactcttaa cactttcaac 420
 ttatctacca tttttnecca cttaaaaaat tatgncccga agccacagna ttttcaccaa 480
 aaggccatcc gggcccaaaa cttgggttct aaaacccttt taccttaaaa agggacccag 540
 ggntccttgg anaacgntg gttntanggg tag 573

<210> 7637

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7637

aaagggtggg agatatttat tttctttaa caaggtcata aataacaaaa aacaaagtag 60

gtcccagact ccggaccatg cagcaggaca ggggtgggag gttgttgagt ggaaaggtgg 120
 agggggctac acatcaccta agacagtcac agaaaagatg ggcttcagga cactgcccct 180
 tcctgccctt ggaaatggcg tgcctgggca ataggacag gccacagtgc tgtgtcgagg 240
 cagctggaag aaggcaaaga ctggggatgc caggctgtaa tgtttctgtg tggagtgatg 300
 tgaaatccac aaatggcaaa gagaagctgt aggtttgaag aggcaagggg gcactgcaca 360
 cctncaggaa ccagttatga aaatggttaa atttgatgat taaaaacaat tccatagctt 420
 tggcctgngg ctttgtgcat gggctggatt taaccctggg ntgctcttgt ggcaagtga 480
 ggccccagaa ggccctggaa ccacctgggc ttanccaagg caagtgncca aaacttttgg 540
 aatggaccng gggctntncc aatggangg 569

<210> 7638

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7638

ccaaatatta tcccaaata gttgtttaca gataagggtc aatacgaagt caaacattct 60
 acagaagaaa atcgttttta cagacattaa gaataatttt aacagaagaa aaagctcaca 120
 tctatctana tgtggctatg ttccatggga aaaatttcag catccaaagn gcaaagaaaa 180
 aatgactgta gcttttctta ccacaaaata ttgacaatct tcccttatag cctactcttt 240
 attgttagtt gggatgccaa aggatgatat attgaccttt anaagttggg ctccactgga 300
 caaggttggg ggtatggggg ccaagcatca gaatgaattc aattttaaaa gaaaaactgg 360
 ctttgacccc aaatgaaccc aaagttcagc cagcggcaca tcagagataa atccagttgn 420
 actttcacat ttacaagggt gtgccactca acactattaa agacctaatc atcccaatca 480
 aaagctccca tacttcata ctaagtctgg cctnaaggct tcccatttta tgaaagcttc 540
 ctattatgct taantcataa nggggan 567

<210> 7639

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7639

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cagagggctt ctcctttttt aatcaatgac caacttatcc agctttggaa atctggacaa 60
agagaaggct gagaggaggc ctggtccagt gtctaagggt ctctgagtga gtctgtgtca 120
gcatgtgggc ccagctggg cctgtccatg ggttgggcac agcagtttcc tgagtaagag 180
ccagccccac cctcaggga gcattccagc ccaaaaagaa atccaggccc tccaggttcg 240
gcctgttttc aaggccctca ggacagtcaa taaatagggt agattctgag ccaggcctgg 300
aaagtgaggg tattcaaagg gcaggatgag ctgctaggga tcgtaatgat tcccagggtac 360
tctcctgccc ttctccaaca aggaagtaaa taaatagact ttttaactcag gaaccgggtg 420
ttggaacagg ggaacccttc ccttggaagt tagnaaatta agctcatggt aaaaacaagg 480
aaccccaagc ccttaccaga tntacaaatc ctacaggatg gaagggaagg ctgtccacct 540
gggggtccca tncagcccc naggtcctgg gggaggt 577
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<210> 7640

<211> 503

<212> DNA

<213> Homo sapiens

<400> 7640

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gagacgaagt ctcgttttgt tgcccaggct ggagtgcagt ggcatgatct gtgctcactg 60
caaccgccac ctccagggtt caagnattc tactgcctca gcctcccaag cagctgggat 120
tacagacgcc tgccaccacg cccggctaac tttgttgtat ttttagtaga natggggttt 180
caccatattg gccaggngg tctcgaactc ctgacctcaa gngatccga tgcctcggac 240
tcccaaagtg ctgggattac aggcgtgagc cactgcgccc agcccaaatt atatttttta 300
ataactaata caaaggtgaa gtggctcctc ccaagtagca gtgctgccgg ggcctggccc 360
aggcctagcc ctgggctcac ctntcatgct cccaagccaa ccctgagctt cctggntcaa 420
gggtagacct ttcccttta aaggtaann gtccaggag ctctatgana attgggggaa 480
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atgangngaa cccttacttc ctn

503

<210> 7641

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7641

cgtctcaatt gtttatttga ctcacagtca gtgcacacac tctaccatcc aaaagtcgaa	60
gctgtgacaa tgcactgcta caggcagtgc atggatgtgt aaacaaacac aaatgaaaat	120
gcaaatacaga gtgggcgggg ccaaggccca ctgttacatt cacagcacag ggtaagtgca	180
aaagaacagg atgtcaggat ggggggcggg gagcacaggg tccttcctgc cctggaggct	240
gcctccaggc atcagcctgg gaggtgggtt agtgcccatg gaaccctcct gccaggaag	300
ctgcctccgg gcatcagcct gggaggcggg ttagtgccca tggatccggt gtctgggaag	360
gggccacag aagatgggcc acaccagca tcattctctc tctgnggtgc gccctccatc	420
cccagacccc tttnccattt angggaaaag ggccctgggc acangagcca gtcctntgac	480
ctctgagtn gggaaccca gaagggaang ggtttttctg naggcctttt aaacttggaa	540
aggccnaanc ccc	553

<210> 7642

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7642

cattaataat gttttatttc ttcaataaat taaccttggc tcacaatgaa catttgggtt	60
ataaacttta atttcttaaa actttttgac tctttggtta taatgcttag cttattgtac	120
agctgtacaa aatatttctt tatatcctta ttctataagc ttttttatat atttttttta	180
acattggaaa aacctttttg tgaaaaacta agatataaac acacacatta gcctaagcct	240

acacagggtc agaatcctca gtatcactgt ctctcctc cactcttgt accactggaa 300
 ggtcttcagg ggcaataaca cacatgaagc tgtcaccttc tatgataaca atgccttctt 360
 ctggagtact tctgaagga cctgtcagaa gctgttttac agttaacatt ttaagtagta 420
 taccctaaaa taatgataaa aagcatagca aagacncaa ccagtaacat attatcaagt 480
 attatgnatg ccctggacat aattatatgg accatccttt atatgactgg caccncnaac 540
 nggggtaang ggtggggctc aggtttacaa ngac 574

<210> 7643

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7643

atgttttttc tttttattta tcaagtttta ttctacagct aaatttcaga tttcttttac 60
 atatagacct tgcaaggcac ggtaagaact gagcacttgt tttatttgag ggataaagg 120
 gtagaaattt tctctttgaa tttataagg aaaggctggg tacagtggct catgcctgta 180
 atctcagcat tttgggaggc tgaggcagga agatcacttg tggccaggag tttgagacca 240
 gcctgggcaa cacagtgaga ccccatctc taccaaaaaa aaaaaaacc ttaaaagata 300
 ataagtatct aattctttta tacttgcat tctctttgga tcaaactca actttgtgag 360
 aggtcataca tttctacagg gttaggagta ccctgcataa tttatacaaa tgtaaagn 420
 atattaaaaa aaaaaagggtg aaagtacctg caatctaaan gggtttcttc cctanaaacg 480
 gcaccttttg gnaagggatg acccatcttc ctatttatga aagcagggtt ccntgntan 540
 cctnccgga 549

<210> 7644

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7644

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gcanaaaata acagctttat tgctacagat gtgagagcat ttacaaaatg ccaaggaaaa 60
ccattccgtt ttgagtctct ggagcctgaa ctctcaccat gtaccanaaa agaatgcccc 120
tntttcgaac tttcaaacag ttgggattat ttttgtttct tatcatccca attatttgct 180
caagtttgcc tccattgggt cccgttcana gtttcttggg ctgcttgtag tagtcacagc 240
tccacttcca tctcttctca ggaagagggtg ggcacaagac acatntgagc cccttagtat 300
tgngatggng gccaggaaat gatcaaagg tagcatttag gaaatcagca aactaaagcc 360
tcaaatacaa ggtggacaaa tgcattctca actcaaacag gttgggtaat gctttcataa 420
gatcattatg tttttgggac ccnggcccc aaatttaata aggctacaac caggattcng 480
gaaagacctc cagctttttc ccaaangatg gncaagggca aaccaaacna aaaggnggng 540
acccaatnga ta 552
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<210> 7645

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7645

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gtacatgaaa gagtatttat tgaaaacatg gttactgaca ggaagctcct ggctgctctc 60
tggttacaat cttggctcac aactggaagn gttacatact tttacttcc cctcaatttt 120
atttttcccc aaggttccat cctaagatag gtagatctta tataaatata tatacncgtc 180
tgtataagta tggcctatag taatgaaaat atatagtaca ctcttcattg ggtagtacct 240
accatgccag gccaccaata ctgaatgcca atgngctaac gtatgtccag ggagagaggc 300
tgtgtgtgtg gtttacaagt gctgcagcac cagggaagcc ccactggcac aggtgtggcc 360
tcagccggcc tcagccagct cctgaaatc atggccaatg gcagaaacca tagcactagg 420
aagggaangc caacttinctg gggctctggaa ggccaaagga aagcaaactg ganggggctt 480
gcaattaagg ttaggggaaa ttctttntga ggaaggaaaa gggtttaatn ggggggaaaa 540
nccttnaatt tanggccncc t 561
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<210> 7646

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7646

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gatattttca taacattttc tttacattt aatagaaact atatacaata aatttttact   60
atattttaca taagatagca accacagaaa tttacatagg ttaaaagcaa gacggataag  120
gaggaccag tcctgtgggc tgttttctca gaggataaaa agccagagtt caccagggaa  180
aggggttaaa gactgcccaa ttaagtagag gtgaagaaaa gctaaactgc aggtcttcag  240
atagagataa ccgatattag ggccatcagt atctcaaaga ccactcaca agacagctcc  300
cacctagcta ctttaagtga tttctatcca tgacttggga aatcccatta caaagatgtc  360
actttccttt taggtatagt cccaaataat ccagaagct ttgataggga ttatctctct  420
ttctcttctt tgccctgagt ggggaagaaa cccacggtcc acggtcctca aaattingnt  480
taccgttnga ctataatact caatccngaa gaaaaaccag ggtaagctng ggttgccggg  540
gttttgngag anatgatccg aaatcctt                                     568

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<210> 7647

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7647

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ggagacggag tctcactctt gtcaccagg ctggagtga gtagacgat ctcggctcac   60
tgcaatctcc gcctcctggg ctcaagcgt tctcctgcct cagcctcctg agtagctagg  120
attacaggct cctgccacca caccacacac attttttgta tttttagtag agaacgggaa  180
ttcgccatgt tggccaggct ggtcttgaac tcctgatctc aggtgatccg cccgcctcgg  240
cctccctaag tgttgggact acaggcgtga gccaccatgc ctggcccaa ccagaacact  300
tctgagcgtg gaagaggatg ctgttaatta ctcaagacca aaaggcataa aaggagacat  360

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atgtccaccc aagtgataag gcagtttggg aaactacatt tcccagtatg ccctgcccct 420
 tgaaagttaa aaatcttaac tggcacagag caccctggga cacctgtggt tagcaccatt 480
 taagaagtna aaaggatang ggttgggntc tgacntgaag ggctttcccn ttcattgggac 540
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<210> 7648

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7648

gacaatgaca ttcacagagc tctggctttg caggttcctc tcattcttga cagtcaaggt 60
 gaacacatag gtccccactt gcagcccagt cacagtagca aactgtctgt tagcattctc 120
 gagctgcacc ccattcaggtc cctgtgtttt ttcccagaga tatgagataa ttttctgac 180
 atctgagctc ttgtgccat ccagggttgt gctatccaca ggaagggtca gctctttatc 240
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 agcagtggcc tgctgtccta ttgtgtcagt cactgtgagc tggtaagtgt agtctccttc 360
 ttgcatcgca gagagctgta aggttgggtg tctaacaccc tgcattctca ccactttccc 420
 tttgtgctt gggctgagtg accactcata ctggtgatgc catgatcatc aatgcttggg 480
 ttcccaaaga ggtgacggag ttttgggcaa gggggatcac ttggttgggg cctgcgttgg 540
 ccacangggg gaatcccca gttttgttnc tn 572

<210> 7649

<211> 581

<212> DNA

<213> Homo sapiens

<400> 7649

acaaaagcaa taccggttta ctaaagacat ttccagatat ttacagatca atttctcaca 60

tctatttcta taacttgact ttgaagtta ttataatcat attactattc tgaattttta 120
aaggtccaga gaatgtaaac aaattctatc tttaaaaagg cttactgaca actgcagact 180
caaagtggct acaaaaggaa aagtattgta aacatttgtc tcttaactct aggcactaat 240
ctcctaaacc agttcaactt gataaggaaa aagacttgag attcactcat ttataactta 300
gtagcaatg tcattgatca ttaaagatat ggaagaataa tggaaaactg gatttttcac 360
taatgcaaaa ttaacaacaa tacctcgacc cccattaaat atacagatgc caccatctct 420
tccatcatgg attttatttc ttcttagtgt agggattact atctgnctta atccagactc 480
cagccattgc attggcaaat atttcattgg ctctataca gcctanacca gaaattttta 540
actaggaatt nccccattct ggncctccca natttggtgg g 581

<210> 7650

<211> 587

<212> DNA

<213> Homo sapiens

<400> 7650

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tttgacatgc aacagggagt agccacgtgc tcgctcgctg gccactgtgc ttcgaaacgt 180
ttttccagcg gacggctgtg attgcagttt tcagatgtgc tctggcctct aaggacgtgg 240
ggccgaggcg gtgtcctctg tataaaaagt gctgtcctgg gagcttcca acggacatct 300
tggggcatct gagtgattcc caggaggggc agcttggcct tcctcaggct accactgcag 360
ccaccgccgg ccattctcac cagcaatcaa ccaaaaagca tcagagcctc tgtgaacctg 420
ctgtgatggt aagaaccaa tgtttcctaa gctaagactt gtatgcagaa cacagaaaac 480
tgcanttagg aacaccctac aaaattgacc acagtatttt ncaaaaatat cntttacatc 540
ctttaaataa ttacaaaag ctccaaaatc ttnttaccng gaccctg 587

<210> 7651

<211> 588

<212> DNA

<213> Homo sapiens

<400> 7651

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gagatggagt ttcactcttt ttgccaggc tggagtgaag tggcgtgac ttggctcact   60
gcaaaactcca ccttccaggt tcaagcaatt ctccctgcctc agcctcccca gtagctcgga  120
ttataggcac cccccacat gcctggccaa tttttgtatt tttagcagag acgggggttc  180
accatgttgg ccaggctggt ctcaaactcc tgacctcagg tgctccaccc gcctcagcca  240
cccaaaatgc tgggattagg ctgctctttg agagctttac aaatttattt aatccttaca  300
atgactctga ggtagatctt cttgtctctg tttgtagata agaaaactgg aactgtcaag  360
aaacttgctt aagatcacag agtgcattag gcttggatcc ataatcaaat tggaaaaaaa  420
gaaaaacaca aagaacaatt aagactccaa agccctaata cttagcttt ggatcctatc  480
acactgnggc attatatata taaaacaaa aactttataa taaagagaaa tggattttnc  540
caactggggg ttttcagata caangggctc atgaggacnn tttgtaaa                588

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<210> 7652

<211> 576

<212> DNA

<213> Homo sapiens

<400> 7652

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aatcagtgtt atgtatacac atggtaagta actccatggt atagaaaaac tgatgatgga   60
attcaatagg tgcactctgc ctttccattc ccaagcccac gctctagagc aagcctggta  120
tagcttttgt tttcagttct tctgagggtt aaataaaacg agtaggtagt tttgtgaatt  180
aatattgcct tataatttta agtatagtac atgaccacag tggagtgcct tagatacaga  240
tgtatgagtg attagttgca ggaaacacaa actactgtag ctagccacat ttaaaaggac  300
tgtaaaacag ggaactggat gcttgcaata ttgtcacaag ggctaggagt gggttccata  360
ctgggtctcc agaattaact ccagaaaaa cactgcaggt ctgtctggct tgccagaggc  420
gctgctaccc cacaataatg agaaaggatg agaatcaggg ttgcatccac cagccactt  480

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gcctcaacaa ctgactgcaa gaattctgct gcagggaaan tnaatggctt cttaccaca 540
catgccanca gaacacagcc angangaaaa tgntnt 576

<210> 7653

<211> 573

<212> DNA

<213> Homo sapiens

<400> 7653

cattactcat atcttgattt ttatttctta tgaaaatggc tacccaaaga agtcattgta 60
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acagaaaacc cttccccagg gctgtaatgg gcatttaagt ttcccaaacc cagggacaac 180
taatttttat tacctattga atagaaacaa atggatttta atagttcccc tcccctatag 240
ctgaaaaact ccacaaacaa taattgactc tatctacatg atctgttgac tcacgccaga 300
aatagttact aaaacactta gaattgtgat gttcaaaactg gcctctggct acttctgggg 360
ggttatttgg tgttacgcaa cgacatattg ccagcgacat ggtgaatata ctgnccttat 420
agtcagcaat gtttagttga ggctaatac gttttatatt ttcaaaagg gtaaattgtaa 480
gcttttccca gctgaaatat ntngaaaacc ccaatgnttg aaccagggtt aagcattggn 540
ggtggcaccg nantgggctg atgggncctc ctg 573

<210> 7654

<211> 587

<212> DNA

<213> Homo sapiens

<400> 7654

gcatgtgcac acatgtatac atttattgca taaaattcat catagcactt tccccatat 60
ttttataatc caaaaggaaa atgattcaag aaaggatttc attgtgctca gtttcaaaaa 120
atataaaaat ggacatcaga ttagagatac aagttcatac gctgaactga attgtacata 180

ccaactgcct ggctatggaa acccgtgact tgacttaggg gtgctgatga catgatctcg 240
 acaagaaccc cctagcaact ctcaggtgga ggcagcacag ggatgcggtt cctggtgagg 300
 agggtcctca ctcggtgacc aactgcctg ggctcacagc tggagggctc acccatgagg 360
 gacacgggtg gacacccact gcttcacatg cctaattcac attagaaaca tgtaaagcca 420
 ttcagtctgt gcaataaaga gatcctgtat gaaatccact cattcctttc taacagctaa 480
 agtcaaagg catactggac ccttgangga aaacaggaga acctgaaatg ggaagggaag 540
 aaagggttg cacnttaca gagcaaatg ggcaacngga ccgggan 587

<210> 7655

<211> 462

<212> DNA

<213> Homo sapiens

<400> 7655

aggtacacac agtaaagttt attttgggtgc atggtatact tcactccatt aaaaataaat 60
 taatcagcaa attcctgcct ggctcagctc tggtttatgt aaatagtgcc cagctgtaat 120
 gagttacaag gngttattat ctacacaca cacaggaggc ttcactctag agctccgctc 180
 gcaacaaaag catcttaaatt aaactgagag aagcggtttg atttgtaatg ntttcacaga 240
 agtgggatat acctcaccca tatagagttt ctttatatga ctcatthtat agcaagttaa 300
 atgaaggaag ttttgatggg gggangggag gggcaatatg gttccccacc ccctttcttc 360
 actttaagaa aatcccccaa gagatgacct cgcaactgagg ggaggagggg ctgggcctca 420
 ggngctnana ccaaggnggc tctgcancac tgcttcanaa nt 462

<210> 7656

<211> 533

<212> DNA

<213> Homo sapiens

<400> 7656

cgagtaagct ggtaagtggg ataataggaa tagtagaaga atatgccata gctatggctc 60
aagaatagga ataagaaaaa tgtgcagtag acgctgtttg tccgacgatg atgaaagtgt 120
gcacggccgg ctgtcctccg attgaggggc cttgtcaagg cctcanaggc agcgagggtca 180
cagcctgggtg gaggggtctgg gtgtgcgctg tgtccatctg cacctcacag acaccagtca 240
tgggggggatg aaaccggggc aagaacacat gtgtgcacag gctgtgtgtg cctgcatgtg 300
tgggatgcgt gtaggctgtg gcgggggtgg agatgaggga taggacagaa aatggcccat 360
ccaacccac atcctggccc ggcgtgtcca aggtccctgt ggggccnagg gtttggctgc 420
cccanacgtg acagggactt ggctttnagg gtcaaggacc tggctgggaa caccatctt 480
gaaaaggaac nnaaaccagc ccttgaccc tnnanacccc cagagcttnc tgg 533

<210> 7657

<211> 485

<212> DNA

<213> Homo sapiens

<400> 7657

acatgtctgg agatgttggc ttggttatga attcaaaagt tctcccagag ttcttgatga 60
tgattcatag agaaatcttt caatgctatc ctcttccaaa gtaatttcca tgaatgtctt 120
tagttttctg ngaacagngg ctgcaacctc cctcactttt gagcttttat gtttacctgc 180
attaataacc aggataatat gcacagcagc cgtgaggcac acaatgcctt caatatcatt 240
agaagccaca catgccttta attcatcaa aaatgacctg accacattcg aagactttat 300
tattattcct attaaacacc ttgaaaatgg ngggaagatc agaaagatgc tctggagggg 360
taagctcttc tacgtcagaa accttccgta actgnggact tatctnaacc acaggcccan 420
cgatcagagt agaaaggtcc ccccgngca caagggtgnc tnggtgcca gactggacca 480
gcngt 485

<210> 7658

<211> 503

<212> DNA

<213> Homo sapiens

<400> 7658

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gcaattctgt aaggtttatt gaatgggtgg gtaaaaagt aacgacagct acaaattcaa 60
aaataaaaact cttgggttatt aaagtcattc caggcatgga cagagggatg cgaggctggc 120
cttccctgtc cacggtcctc tgaggcagct gaagtctccc atgtctggac cccgaatctt 180
gtgcagattg aacagtggat ccgggggtgct ctgagcaggc agcaggggagc agctctgggtg 240
acgtttcatg tggtagcctc actctccatt ctctgcccct ctcgtgcca caaacaccac 300
caagagattc acggtgagaa atatcagcaa acccagatcc cagatcacca actccatggn 360
cttaggactt ccttggactg nccttggatc taangctgag accttacaag caccgnagct 420
tancctcttn ttgaanacac gttacctggg gccctgggca cacaggacaa angtaactg 480
acaatccttt ggtttctgnn tca 503

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<210> 7659

<211> 471

<212> DNA

<213> Homo sapiens

<400> 7659

```

caatagaaaa aacattttatt atatatgcat gcaagaacac tacaaagagt agctctctga 60
acagcaaggg gtaagggttt acagatcagc tttatgggtg gtgtcttaag gcttcagaat 120
gaaactacaa aaagtcttga taaggcttat ttacaatacc ttgggaggtc ctagtgtctaa 180
gtgcccttat aagaggaaca ctgagaggag ggttttggca gctgaattct cggttaagacc 240
tgctttactc atcaaagttt agctaaggct ttttgtctgc agctgctgtt tgttcagata 300
ttctcaaagt agacttgat catattgatg gggtgttagt cccttcattg ccctatttga 360
aacttgacat gaagtttcac tgacaaggag ctgtgctgat tgctgtggan ataaggctag 420
gttcanaggt tggganttaa gggatctgcn anatttgcga aagacncgan c 471

```

<210> 7660

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7660

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ccggtagtaa aacatttact agagagcaag cagaaaggaa tgcacatctt aaagaaacct 60
tcacaaagtc acaaaagtca aagtttgtat atttcttttc ctttttataa acgataaaca 120
aaaatcatca aaatcatttc agcaaaagac ttttctatca ttggggcaag ttaaaaaaaaa 180
tacaatgaaa tagaagacac tttaaaagct gttgttgggt ctcttgttta attttaaatt 240
tagcaatacc atctcaaacc tggagcaatc ctggaacagt taccaggatc accttttccc 300
ttcaatcctt gtggcttctg ggaatcttca gagcctgggt ctgaaagggt tttcctacat 360
gtctcagggc tggatgcaaa cctggctggg gacctgagca tcaactccca tttagaatca 420
gacatctccc ttccctgcaa atgtctacaa ctaccaaatt gtccccaaca gttagctcaa 480
tggattgaat ttgcagaagc ccacttctaa aatgggggact ggctggccat acactaagaa 540
aaagactcaa ttatagatgc tatanggggc cc 572
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<210> 7661

<211> 176

<212> DNA

<213> Homo sapiens

<400> 7661

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catataaaac tatttattca taaatatatt ccaaaatgaa aataggttta ccaaaaaatg 60
tccctcactg gggaggggag gagggggcag ccctcgcccc cgggccccca gggnggggct 120
gngaggaaaa cctcccggcc ccctccctgc tncctgggag aggggggatgc ccnnnn 176
```

<210> 7662

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7662

```

gacatttgtg caagaggcaa ggtgaatgca tacatattaa aatgttcaca tttaatggga 60
agaccacaca taatggcagt ctacattgaa cccattttca agtatttggt cacagattct 120
tctgagtact gttatcagct ctttatactg gtaaggtagc ccctgtgagc tacacatctc 180
tttagcttca aacaaaagaa atggaatgac cagcaccttc ctttgttttc aggcaagtac 240
acagaagcct tgctgcagta gctacatgtg gcaagttctg atgttgccaa agttagaaag 300
agtttctttg gccacttggt tctcctaaaa tacaagcgag tctcttggtt taaggtaccc 360
ttacaacatc atcctctcaa caacacggac aggataaagc cacatgggaa tagcacactt 420
gaggcctagt atgtgtatgt gttcagtggc ctgacagatg gggtttgagg aacaaaggaa 480
ggctttggtg gcacgtcagg ttttaaggac ggggtcctct ttantcccgt cctangaaga 540
aggcccttac tggggtaact gctctgctgg anagg 575

```

<210> 7663

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7663

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cacaaatagc actttttatt tgccactatt tgaagtctga actttaaaca gattcttgga 60
ctggtgggtc atatccatca gctcgttcaa ctttagcacc tgtctcgtcc ccagnggctt 120
ttccagaact actgtgatga aaggaaaaaa aaagtttaac tttccaaagg taatgctttc 180
atgaagagtt agaaatagca gtttttagta ttagttgtag gaattctggt taagacttca 240
acattttacc ttacttaaaa gatttgcttt atgcaacatt taatgcccag ttttgcatgg 300
ctctaaaaat ctttaaaatg caaaagcttt tccagtgact ggaagccaac acgacaagaa 360
tgaaatggta tgacctgtga attagcctgg ttataaaaa aataccagtt cagagaccat 420
aancaaaata aagaaactaa gcaatcctta aattggattt agccttgggc aattagcaga 480
aaaaattcac tcntaaaagg atccttttc agaattattg ttttttaaaa ngtagggact 540

```

gggtttataa gagtaaaaag tttta

564

<210> 7664

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7664

acaatttcag ctttattgac cccctaaagt ctacaaatcc ttgggactct actgaccctt 60
gctgtaaagt gaagggagtg aaagtatttg gaatataggt aggacctcta atataataaa 120
gatgtcactt taagatcaat ttattcaaca aacatttatt aaacattcat atgccaaaaa 180
ctatgctatg gagatgcaaa aaataaaaag gttccttttc ctgcccttaa ggagctcaca 240
ttctagtaaa gacttttgaa aaataaaaca atacagtacg atttaagtga catacaatag 300
aggtagggtg taattacagn ggtgacacga aagtggaggt tagatgactc tccttgagtg 360
gagcaaagga ggtttcacag aggaaatgct tatgtcaggc ctgcaagatg cataggaatt 420
ttincaagtgg ggaaggatga ctagcacact tgatgccaaa gaggtccagn ntttaccaag 480
gcggaaggcc tggccaaatg gggcttntga aaaaatgtaa gctgttcacc agaacattcg 540
ggggnggaac ccat 554

<210> 7665

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7665

gggctttgcc ttaggttgag agagccgttt tttctccaat tcaatacttt ttttgccttg 60
aggaggccgg gaatgatctt gcatggaagt gagccacttg tgcacacaaa agtcatctgc 120
ccctgaatag atgcagtctg gatccaaagg agaccatgcc acacaaagca gtcgaccttg 180
atgtcctcgg aaattgcaca ggggtcttcc ccggagagca tcccacacct gggctgtacc 240

atcataggaa gcagatacca gccttccatc atgatgtggg ctccacgcca cactggtaat 300
 cttggccgta tgccctgaga gggctccgta gggctctgta atggtcactg gagactcagg 360
 gctgctctct atgacagtct tcaggttgtg cacgtaaattg actgcattgt tggagccaga 420
 ggccatcaga tagctcaatt ctggctggct gccatgctca tgatgccagc tnatggnatt 480
 cacaagcttg ngaagctgtt ggataagtcn anacagtttc anggtnggga atctggaaat 540
 atttctattg ga 552

<210> 7666

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7666

gagatgggtgt ctactctgt caccagggt ggagtgcagt ggcacaatct cagcccactg 60
 caacctccac ctcccagggt caagcaatta tctgcctca gcctcccag tagctgggat 120
 tacagggtgcc caccaccagg gaaaactaca ttttcaagg gcattcgaga tgccttaaaa 180
 ccaagaaaac ccaaaagaat taatctcatc tgattaattc tcatcagtca ccctgtattc 240
 acttcatggc ttaccctgct tttaaaaaac ctgactgtt tctggtttta atccttaact 300
 acctcaagaa tccagaagtc ttagaaatat ctaaaaattg tagcatctct gagcaaattg 360
 acaggctcca gtcaatgtaa aattattacc agctgcttaa aaaaggatcat ttgtccacac 420
 cataagcaga aaccgaggag acaagactat aaactagaac caaggctgac aggcaacagg 480
 aagaaacagt ccagatccag gantggggag tgggcaaanc caagcaaacg gcatgantgg 540
 aangggattt gaaactaagg tag 563

<210> 7667

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7667

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ccatccaaga taactttatt ccattttgca ttatttgata actatttcct tccccctccc 60
acctccaact gcatctccta ctctgaaatg cctnttgagc agccaagggn ggccagttct 120
gctcctcatt ttcctgaana anaatctcag cctgaaagaa tatagagcta ggngacatat 180
gggtggccaa ccgnttctcc tcaagttcca agagagnggg caattagnga aattccatca 240
gtcatgttaa aatatacttt caccaggtag acatccttct ttcaatgcta gaggacagtg 300
aaaaatgtag attaatgaga tctgtaactg ncttctctta actgtacacc cctcaggctg 360
aacgcgggag tgctgaacac atgccctcgg aaggggaccc tgaagacca agtgacctgc 420
ccataaacca ccccgagggt caaccttgct gccagccttc aagaaggcag caggggccac 480
ctgnntggaa aacctgggca cgggttttgg ngncctggnc ctggcctggc ntcttcaagg 540
tccttgaac caggtttt 558
```

<210> 7668

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7668

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gcatcttaaa gactttatgc taagtgaac cagtcacaaa aggacaaata ctgtatgatt 60
ccacttacat gagaaatatg agtagtgaag ttgatgatag agacaaaaag tatggctgtt 120
gctaggggag ggggaggtgg ggagttattg ttcaatgggc acagaatttg ggaagatgga 180
aaacttctgg agatggatga tggatgatggc tggacaacaa tgagaatgta cttaatccac 240
tgaattgcat atttaaaaat gggtaagctg gtcagtttta tgttataaat attttacc 300
aataaaaaca nattgaactt aaaaattcac tgaanaagcc catatggaaa aaggactaaa 360
tgttaaaaaa aaaaaaagcc aacttttttt ttttttaatc angagataag tccgtagctg 420
caagctcaag gtctcggttg aggacantca ttatgagtc tagtaaaaga caaccngttt 480
taagaacact gtcaggcnng ctaccatgta nttctccttg gcttccatgc ttacnttttt 540
nagactttcc agtanttcca aaggg 565
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<210> 7669

<211> 443

<212> DNA

<213> Homo sapiens

<400> 7669

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ccagagacaa cttctaagtt tctctttatt tcttttggaa acaacctcca ttcttcatct 60
ctcaatgtag tcctggccta gngaaaaaga aggcctttct ttctggcctc canagactgc 120
ttcctttgta ggaaaaggaa caataaacac ttcccattag gtttctgtct ccagatacca 180
atcagggaaat gactggccag gactggaact taacggcctt ganaacatgt gggatttgtc 240
tttgagcccc attggcttgt gatgttttcc tctgnccctc ctgagacagt tgctcctgtc 300
ctgggggggct ctgcctccac ctcccagncc aggatgtctg aggtggttgc aggctgcttg 360
ctgcccagtt tccagtctgt tctggnccag ggaagcacca ccccatggcc cttgctgctt 420
ntggcagggg ncctnannag ctn 443
```

<210> 7670

<211> 773

<212> DNA

<213> Homo sapiens

<400> 7670

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aatatagaac agtcaggttt tattactttt aagtaataaa gagccttttc cttgcttttc 60
ttttttccct ttttttcttt tcttttttct tttcttacia catacattaa gtcgtgaatc 120
agatgttagg ggatgtggag atggaaggaa aattggtgac atcacaatat ttttacaact 180
ttacaacaaa tataaatctg agtttgttgc atctaccagt gtctagcaag ggtggaaagc 240
aaaggcacac tcgggtttat ggacctccc cccacacaca gtggggaaaa aaactgggga 300
gaaatactta aatgcagaag accagctcaa tacatgtggg tatttttaggg ttaacaccag 360
aagtgatggg ttgtgggggt gtaggaatgt ggatgtaagt tttgacacag gtctccttaa 420
cagctgaggg agtgatgcct acaaactg gacaagacag ccgcttacgt caatgatggg 480
```


tgctgcactg ccagtactct ngggagtcaa gcatgggaaa gaagggggca gggggataca 540
gacccatcac cttcctaatt tctgcatttc tagagaaaat tcaaggaaga aaacaatatt 600
tcaggttcta ggaaatactt cagggtttca ggagacagag ttcacaggat gtgaacatgg 660
attccattca aaagccaaan nnaaaaaagt aaaancacac aaccacctac tcctaaatac 720
agcaaaacta agggcttttg gaacaaaggc tnttaccccc ctnagctaag nct 773

<210> 7671

<211> 868

<212> DNA

<213> Homo sapiens

<400> 7671

gataagtaaa atgactttta ctattgatat cagttttgtt taatctgaaa ctataaaata 60
gagatatatc tacctattta tggatggata ataccatcat ctcatttttg tggaatgctt 120
tatagttttt caaagtactt ttattcactt tatcttccat atatgttata tcctctgatt 180
ccagcaataa cagcccgggtg aggtagccag ggcaagtatg tattttacac attagcagga 240
agggaggcta agcgaggttt atgtaactta ctcaggctga aacactgaag aaaaatttgn 300
gactctcatt tcagngatgt tttctgcatt attaaaaaat attatgctac tcctcactat 360
attatgttga tggttgaaat gtcattataa agcttaattt atatgattct cttgatgagg 420
atgatgaagc aaatgctcca tcaactcact agttttacagg ggcaagcatt ttcctacatt 480
tcacacataa tttgattacc tctgtcctaa gtgaataatc tactatctgg gtatgagaaa 540
catgatttga aaacactaaa ccactatatt atttcaacaa agaaccatct ttcacaccta 600
agtaaaaagg aacttcaaaa aaagtcctaa ccaaaaaaaaa tccaatgat gcatgaaatc 660
aagtcaaaat tgggtatctt ttatccggtt cttcggttng gtgaanaatg ttgcctggat 720
tccttccatc taaaacttga tggtagacct gnggcanaac tctagaaccg acttttagcct 780
tggaancca agaggccaaa cctaaagctc actttctgca tggatgcntg atcaaggagc 840
tcttctgctt ggaaccggng cttggaan 868

<210> 7672

<211> 388

<212> DNA

<213> Homo sapiens

<400> 7672

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gccaaagataa atcactttta tctctatagg gaaagggagg atctaaaaaa aatataaatt   60
acattagtaa cacaacataa gaaaaagaca gggacaaaaa caacagaaga agtctgaatg   120
atgctaccct aacctattta taaaaaggcc ctgcatcaga aattcacaat cctaccact   180
tctaaaaata tatttagaca tgtacagaag cggtgggctt gtttttaa at tgtttgcttt   240
ttttgtaaaa atatattaaa ggtgaataga aatcctctct cccttcccc tgtccagccc   300
ccagctaggg actgganatc aggggtaact atctcatggt gttctaaacc ttgattacta   360
acactcccaa cccctcccca actcactt                                     388

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<210> 7673

<211> 360

<212> DNA

<213> Homo sapiens

<400> 7673

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ganatggagt ggantgcant ggcgtgattt cagctcactg taacctccac cttgcaagtt   60
gcagcgattc tcatgcctca gcctcccgag tagctgggac tacaggcatg tgccaccaca   120
cctggcta at tttngtntta ttagtanana tggggtttca ctgtgttggc cgggctggtc   180
ttgaactcct gacctcaggt gatccacctg ccacagcctc ccaaagtgtt gggattacag   240
gcttgagcca gtgcacccgg ccgactctct accanaaact tttcttccaa tatgaaggaa   300
gcatggagtg tnggctacag tcacttaatg atccttccaa gttcaaantc atgataattc   360

```

<210> 7674

<211> 378

<212> DNA

<213> Homo sapiens

<400> 7674

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cacaatgaat aatacattta ttaaacaat tatttctttc ctacatgatt tctctgatgt 60
tacattgagg gttgacttat ggcagaaaaa ttttccatat tcattacatt tataaaattt 120
tactcctcta tacatactca cagtttagca ttgtgtaagt tatttgattt gttgctttgt 180
tggaatttat tactttgttg gaacttattc cttgtgggat ttctgatgta aaanaaagtt 240
tgatntgtgg cgaaatgttt tctcacattt gttacattca taaggtttct ctctgtgtg 300
tattttctga tgttcagtga gagtccacag gcgacggtag gtttccacac attgattaca 360
ttcatatggg ttctctcc 378
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<210> 7675

<211> 377

<212> DNA

<213> Homo sapiens

<400> 7675

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ccgtgtcatt ctcaacttcta aatagctcta gacttgggtcc cattgcacta acttaattca 60
ctctccatca tctttggctt ggantacaac tccgtccttc catctaattt gcctgtctcc 120
aatcgttctc ccttttgatg tgnagggcan ccaatgatct ctctaactt tacanaaaaa 180
tgcaccactt gggttgttta aaacccttca atggcttccc attgccccaa gttcaaactc 240
tgcaatgtgg cctacacatc tctctagntt cacctcctgc tcaatatact acagcacagt 300
gaagttcttg gtggctctca aaagggccct caaacttcaa acattccctt caaccttaaa 360
atcctcaatt gggaaaa 377
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<210> 7676

<211> 223

<212> DNA

<213> Homo sapiens

<400> 7676

gagtatgatg tttaatgtaa gatccagtgg cttggcanag ttggtgcaaa actgtaaagt 60
 accanattaa gttctagtca gtgagtttagc agcctaggca cttgggcaaa aaaattggcc 120
 ctgctgtccc aagtcctcca aancctctc cgtatcacca gctagganct ccaanactga 180
 tatgccacta cttggaggct tgantnaaat ccacgcgtcc tca 223

<210> 7677

<211> 379

<212> DNA

<213> Homo sapiens

<400> 7677

ggtttgaaat atctttttgc aatanataat cttattttaca ttaatacaga atcattttac 60
 attcctaaat cagacactaa tagatgcttt attttagtga attataaagg aaaacaaaaa 120
 ggaaactgtt gagaagtgtt cttcattaac ctgtctaacg acagcccgaa gatcctgaaa 180
 cacatggaaa ctgcgacatg ctaccagcag aggctgggga atgggggttc tgctctcact 240
 gaatggtggg gaaccttcaa ctgcttagcc tgtgctttcc ttttctgaat caacattttac 300
 aaaggaaaaa acaatgatta gcaactgaata atttaaacnc acttcagaaa atanatgten 360
 acagtgttag tggganaac 379

<210> 7678

<211> 376

<212> DNA

<213> Homo sapiens

<400> 7678

aaaatatttc cttttattct ggaacaaaaa ctggagaaag gacaatgatt ccttcagaaa 60
 gcaatgactc aattcagggtt gttactttac atttaagtac cactcaaaaa gtggacataa 120

aagcaagtga ttcctgtttg cccatcacta tatcagctac atagctgana nttcagatct 180
 taattacaca acactttctc tgttaccaga agctaagact gctctgcgac aaataggaca 240
 ggtngaattc tcagataacc agcgatcgat gcagtggaca tggctactcat gggaaacaag 300
 gtantttacn aagtttgttg ccttctggta tattctgtaa tgcaaact acagggtttt 360
 taatgcatca tttttc 376

<210> 7679

<211> 386

<212> DNA

<213> Homo sapiens

<400> 7679

ggtagtcaaa gtaaagggtt gtccttgcac cagaatggtt taaatcttgc aatttgcata 60
 tacaaaggag ttcagcaaca ttcactggca ttataatcag agcaagatca aattataaat 120
 gtaatcaag aaaatatgat agttgaactg taataacata catacattat aaagactgca 180
 cataaattaa acacaactta gttaaacaaa caaacaaaaa agtatcagta attatacact 240
 taaaagaata acatggggat gtctccaaat gctgaaacac aggtgtcagg ctcatTTaaa 300
 aaagtgttta aaaacncata aaaatacctt ttaaaacact ggtntgcatt ctTcattcat 360
 atagcacatg ggagaaaaac cgtaaa 386

<210> 7680

<211> 285

<212> DNA

<213> Homo sapiens

<400> 7680

tnagtTanat acagtgccta taangaacag acgcccagcg caacaggTcg aggcctttgt 60
 ccttgatgat ttttttttcc tctggctacg ttcagtccga ctgaagtgca gcgctatgca 120
 tatgtnaaca tattcgTtan agccgatcac ctTtaaggTc attcggaaaa aacggTcctt 180

gttttcgctg tgtgggtgtg ggtcntaaca ccagtctcat tcccccgga ggaangctct 240
tgggcgttgg acantccac tcgggttgtg ncacaggac aatnt 285

<210> 7681

<211> 380

<212> DNA

<213> Homo sapiens

<400> 7681

agaatacaaa gaaatttaca ttattatac cgcaaaaaa ctcatacatt tataaatacc 60
agtaacatgc atagaattgg aataagatgg ttactttcta ataaaaggag acacciccaa 120
tgggcaaagc ggtaaaaaag gactttccac aaattaaacg anactagcct cagtagatcc 180
ttattaacac ttaagtgaat tcaaagccct tcctgaaact gggatttgcc tcgctaacc 240
tctctgcacc ctgagcaacg aagtgggga taattggctt caggaacttg aactcatttg 300
tcccgattc tccagtcaga cacacctgt actggtagct ctgggacagg gtcccggtgc 360
cgctcacgtc caccatctgc 380

<210> 7682

<211> 380

<212> DNA

<213> Homo sapiens

<400> 7682

aaaaagatac ttttaataac atgaaggaaa aaaattcaaa ataacatata tatacaaata 60
catcctattg ttattccagt atttcacaga ataaagaatt tgtctatata atttccttca 120
gtagcccaca aaatatttac cactccttcc ctttaattacc attgtattaa agacatctga 180
tgtcaatgac aaaaactcca gtattaatgc ttaagagcta gggtacatta ttttaagtttt 240
tcatttaate taacatcttc aagtcataagg gaacttttta aactaatctt gttcacactc 300
caggacattc ccacgccaaa aaaaaaagt cagatcaaca gccagaaaa aaaccaaac 360

aacaaaaaaaa accacagcta

380

<210> 7683

<211> 379

<212> DNA

<213> Homo sapiens

<400> 7683

agtataatcc actttataag tttttaaaca aatatactta tgcatakana aaatctggaa 60
 aaatatatgc cagctataaa gtgggttattg ctcatgggat aaattgtggg aaactttttc 120
 cctttttgct tctctgtgtt gtgatttcct aaagacaggg cagtgggtgtc cctaaactgc 180
 tctggaactg caggacctaa cagcctcact gtgtctgctc acccaagtct gacaggtggc 240
 agggcagtgt ctgangccca ctgggatgca gaccaggaa agctgggggtg gggggcttct 300
 ggtccccatc tctgcancct catcctctcc ccagctacac agaccagat ggctactgtc 360
 ctggaccana tgaaggcag 379

<210> 7684

<211> 381

<212> DNA

<213> Homo sapiens

<400> 7684

gagttggagt tttgctctgt tgnccaggct ggaatgcagt ggcgcggtct cggctcactg 60
 caacctctgc ctcccgggtt caagcgattc ttctgcctc agcctcccga gtagctggga 120
 ctacaggcgc gtgccaccac gcctggctaa tttttgtat tttattaga gaccgactta 180
 gccaggatgg tctcgatctc ctgacctctt gatccaccgc cctcagcctc ccaaagtgt 240
 gggattacag gcgtgagcca ccgtgccag cttttcaagt ttcttaaate catgatcctt 300
 agtaaaaaca ttttacacat atcttcatac aagtatatgt atatgtggtg tacgtacaca 360
 ctatagttgt atatgcatta n 381

<210> 7685

<211> 378

<212> DNA

<213> Homo sapiens

<400> 7685

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aggatgttct ctttatttct ctttggtttc ttaacacaaa agacatgcat tctataaata   60
aaaggaacta agattttctg ggaaaccata aattgggagg aattcccaca gtcacacctc  120
tgttgtcaan angatggtct tcagcccca tctggctgta atctctgatg aaatccanaa  180
aanaaggncg gtgtgttata caaaaagggtg aaacactcaa ggacagtga tgccacagtc  240
ctctgtctan aactgggcta ggccccaagg nccactgant acaatgtcta ccctatctcc  300
ttgttacatc ctttttacia tacccttggg tgatgcttct tttcatgggg ctattggaaa  360
ggctccaaca ccaaanaa                                     378
    
```

<210> 7686

<211> 384

<212> DNA

<213> Homo sapiens

<400> 7686

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gtatcaatna atttttttat tcagaacctg gatctttaag actggtataa acaaaaataa   60
aatacaaaca acttggttatt aacataatag ctgcagttat taactgcaag aaatacagta  120
aaaaggagtc atactaaatg ttaatgttct tgcaacagaa ttttcccaat caccttaagg  180
tagcaaattc tggnaanaaa tgataattca tttcttatta aaaatactta aagaatttcc  240
aagattgatc agttgtgcca caaataaaac agcagtttat tcaaaagaag cccttacctt  300
tctcttattt tcctaaaaga tctgccattt acaggtaact actaatttca gatcagttat  360
tcaaaccagg ggtnccttcct ggta                                     384
    
```


<210> 7687

<211> 387

<212> DNA

<213> Homo sapiens

<400> 7687

```

gactgccatt gcttcacacc ttttaactg tcttaaaggt tctattgctc ttcaacgac 60
ttagtgtact ttgaaatata aaagtaataa ttatcattgg aacagttatt ctaaattctaa 120
aaagataact cccatagcaa tatttggtta ctcagaacat attttcactt ccaatatatg 180
taaaatttct cacaaaggaa cagaactcac agtttgaaca gaaacctcag tgtttaaadc 240
tccacattca gtaaaataaa cgctacatag taggttgtnc tgaatataaa tcacgcattt 300
aactaaatgg gatataattt ctaacttgtg ttaaaagtga agaaataatt ttttatgggtg 360
aagccttgct ccaactcagt caagtgc 387

```

<210> 7688

<211> 282

<212> DNA

<213> Homo sapiens

<400> 7688

```

cantgaacat tccagatttt attagtaacc atgcattata tatttcttta cnccttaagga 60
atagatatga aacaatcttg gagtaaaaat tagaaggnaa cttgcttcaa gtttgtccca 120
agtcaatcaa gcagaaacct gaagaacctt gttttaagat gagagtcatt tatacttggc 180
aggnattttc ttccnatgaa aaaataaagt caatgtgccca ttatcttgac acttatnaaa 240
atgtttataa aaagcattna ggccnttgat tctcacagtt gg 282

```

<210> 7689

<211> 379

<212> DNA

<213> Homo sapiens

<400> 7689

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gcantttgta aaatgtttat tanacctaaa cgggtgcctg gctcttagtt gattatctcc 60
tggatctgca aagaaaaaaaa ggaaaacaaa aggggaaggg gattctctac aaggcctagg 120
catganagga nantcacatc aagttaagta ctgggccacg tgacatatca caatcccat 180
gtggacacat tccagtaaga caacacctag gtgctgggcc cagnaacata tgactgtgtc 240
ttttataggc aaacacaggg tntaaagagg ggaggggata acaatcaaac atctgatggg 300
ccaaaanata tgtcncaatg cccctgtgg gcagggtcca cgctgganac acatatacc 360
ttggcggttg gcccatgan 379
```

<210> 7690

<211> 387

<212> DNA

<213> Homo sapiens

<400> 7690

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natacacaat atataatact gggaagattt catttcagtg tttcccaaaa cattattcct 60
gggaaagggg gtncctctcc atgactctgg ataatanag tttgttctg attttttaag 120
tcacctcana cagacactgg aacacgttag atctaact taagtgttt gaaagggcag 180
taaaaaatcc ccaaggnaat tcaagaaatt gtaataattg ctgggaanac tgtggtttct 240
gtancccagg gtggcttcac agttgtcana ggtcacaaat tctatgtccc tctccgacca 300
gggacctcca ggacagcttc cctggttggt tctcgantct ttcancanaa ggcagaccaa 360
cagaagaagg gttgttgacc ttctcca 387
```

<210> 7691

<211> 383

<212> DNA

<213> Homo sapiens

<400> 7691

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ggcagtcata cacttgatcat tcttggttct tctctcatg acatgggaaa ggcaggtaaa 60
aagatctctt gaaggttgct ccgaagccca tgggantgaa tgttccggtg gacttggggc 120
tctgctgacg gangccaggc cacaagggga caacgctggc accaggccca gtcacctctg 180
taccactcgt tagtantctg gttggtggcc gccanataca ggacaaacaa caggtngccn 240
cccaggagga agctcagaac cacgacaaag cccagcatga anacaatccg tggaaaagtc 300
aggaacaggt nctgaataaa aaagaccgtg tccataacat ggnaggtgtc caaggtcatc 360
natgtaagtc tcttggtata aat 383

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<210> 7692

<211> 379

<212> DNA

<213> Homo sapiens

<400> 7692

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gctgctaaaa atatcttctt caggccctct tctagggtg ccatcttaat gccagacagg 60
acattggaac gatcacgatg ctgagccaca atcaaggcca acaaactctg ccctttgttt 120
cttgattctt tatcatcaac aggaaataaa aggacacctc ccaaactcag gtctttcatt 180
ttcccagcca gctcatatat ttttcttggn tcagcggatc gcttttccan anctgtaaat 240
aaaccacctc tgccccagtg gccaaagtca tctacgcagt gcacaatgan agcatcctcg 300
gccccagcct gaggggtgggt gacatcacca ctaacgtact tgagggaant ancatctggg 360
tcttggtaat ccantcan 379

```

<210> 7693

<211> 418

<212> DNA

<213> Homo sapiens

<400> 7693

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gggtgctctg tctgctgtag tcagccgagc aggggcgctc gctgtttgtc gctcactaga 60
agagagccct tgccagccct gggttcctgn tgccgcaccc gcgaaaacag atggcaccga 120
cttggcaggc cgcagggagc cctggatggc cttgccaggg tctctcctgg aancgctgct 180
gaaggacctt gatcctgca tcctnctcca ngatctgggc atggagcacc tttaacctgc 240
ttncatctc ctgatgcctg tggccaccag tgagcaaacc ctcatgaaa ctgctgctgg 300
gtgagggctg gggggaatgt ccgataagag tgggtgtcacn ctgagnagca accggtggtn 360
gccgcatcnn tggcnaactg cctcatgggc atgttcctcc aaatacttct gctcccac 418

```

<210> 7694

<211> 458

<212> DNA

<213> Homo sapiens

<400> 7694

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aatgaaatgg aatttaatgt aactatgaca taaacacaca cagggtgggg aggacgggtg 60
accaancgca aacgtgggtg acacgtggcc ccgctctctg gaccctcagt gggaaaaagt 120
ctgaggctgg cgtctctcac caaaccacac ctcccctggg gggtaatac tgatctggct 180
gagtgcagc atctcgtgac ccaggctggc cctgggaang cgccacaggc gangcctgcg 240
agtccagggg agcaggcaga cgctacagtg gccccgagc gcgccagggt ccagcctcna 300
cgtgtnaatg gcccgtgctg ggcgctgctg ggaaagaaaa caanaagggt agggctcgtc 360
ctcaccaagt gcttcctgan tgccgtanga cgtgggtggg acatggggac agtgagggtg 420
ncacaaacag caacgaatgc acaagacaa gttccagn 458

```

<210> 7695

<211> 400

<212> DNA

<213> Homo sapiens

<400> 7695

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gccttttgta caaagttttt atgtatatat atatgtatat atatttatgt acacagacac   60
aaggggtata aaatccagtg agaagggtc acacatgccc aggtaaggga tgggagtagc  120
tataattgcc agggttgang ccacagtana ggcacacagg aagtggtaaa ntancagcct  180
ccctccatcc tcctacctcg ggccaaaggg aggaaatggg aggaaggaca attntacaaa  240
ggaanatgga aaatactgga aaggcactact ccacctttta ctaaattcct gaaagcccct  300
aaatgcctca caggacanat cactctcaca cctcctggca ggacanatca ctctgangcc  360
tcctggcagg ataaatcact tccatgcctc ctancaanat                          400
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<210> 7696

<211> 601

<212> DNA

<213> Homo sapiens

<400> 7696

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gtattggttt tatttaaatt ttacagaaac ctgatcagag ttaagtatgt aattataant   60
ccagtaacaa tttctacaaa aatgcacata caatgccaga actccttaa agcaactaat  120
atcatatttg tgttttgcat aaaacatgca ttaatatgtt ggccaaaatc agtctctaca  180
aaaagagaca gtccantaca gtcaataaga aaactantt tgaacaacag gtaaaaaaag  240
aggtttccag ttaatgtgaa anaaggaata gtacctttca taaaacaagc ctttcagcgc  300
tgagttaact gatcggtact attgtgctgc acgtaatgta acacatcacc tccaagactt  360
ggtcctgatt ggtcatagga agtaaggac tttctggtan ttacatcaga tatttgagaa  420
gattaaaagt tttccggaca tgatgggtata ctaatagtgc aaccttgcaa aaagggttcg  480
aaacattgtc agacttgga aantcccan cttgataaac aacccccaaa gacaccccga  540
gcctttgaac ggagcctctg cacaaggcca ctcaaggntc accatttntt ctgtgggccc  600
n                                                                    601
```

<210> 7697

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7697

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attaataata cttatttttaa tctgttcct ttagtatgtc ttatacagt tccccctcgtg   60
tatatacact gatataacta caatttaaaa gccactaatt atctgttttt tactttgtag  120
taacaagata tagacatttg aatgccaatg tcttattctg gagagacact ggagctgaag  180
ttcaacaatg atcacactta ttacctggca ataaaaacac aaccatcttt ccagtcaggt  240
caaaatatcc tactttttgc ctttctacca aatcccaaac attcacagtt tttcaaggac  300
cactaataaa atacaggaag cttttaaaga cagtaagaga acacctagt taagttaggt  360
gaattaaaga tggcaaagga gattacatcc tcaacactga cagcttccaa gacttagaaa  420
agagattggt ccttgcttct aaaattgttc tattttccnc tgtagggaaa atgaaagttt  480
tttcttacia atattgaata atccaagtac ttacgcnaaa ttaatcctgc nccccatgan  540
atgaacacnc catttaaatg atctttacna tccc                                574

```

<210> 7698

<211> 490

<212> DNA

<213> Homo sapiens

<400> 7698

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cccaggagat aaaaaaattt attttaatgc acaactatag cattcatatg cctcagccca   60
gggcaggggt tgggagttag gtaanaaggg atgcatttag ttgcccgtg ccccaaanaag  120
cgggtaaata gctaagccac tcttcaactc cagcacagac cttcagaagc cccagatatc  180
aggatgtaat ggtagggctc actgctctaa aacagctcaa acaacctgct cccaggaang  240
caanccttct gctccttggt cccctgccta ccattaggac acaatgttct tcgtctggcc  300
anacatctgt tgaaaggctg gatacaggac aacgtaccca tctttccatc tatatcaact  360
atcctaggtc tctgataccc cattttggag cactgttgaa gtcantctct ggaggtagtg  420
ctgacgcaaa aggggcaact ganaataaan ctcaaanccc tctgggaacg tngaaattgg  480

```

gaagcttata

490

<210> 7699

<211> 358

<212> DNA

<213> Homo sapiens

<400> 7699

aaggcaagaa caacagtatt tattcagcaa gtacaanacc agtttgagag ctgcattcag 60
tgcaaccaga gaccctttcg ttccaaccag gagccagtgg ggctgggtgac aaanctggct 120
ggagctctgc acggggcaag gagtgcattg tgggggctga ccgctcattt ggctccttga 180
atctctttct gatttctatc tanaanctcc cgggcaaggg tagggcctat gtagggactg 240
ggggtggatn aagcgcattg cctacagtgg accactccaa nacgtggttc cctgggtgcca 300
cgggtcacac atctctcagg cggaggcact cananaangt aaagctttcc tancccaa 358

<210> 7700

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7700

gagatggatc ttgttctgtt gccaggctgg ggtgcagtgg catgatctca gctcactgca 60
acctctgcct cctgggttca agcagttctc ctgcctcagc ctcccagta cctgggacta 120
caggcacacg ccaccatgcc tggctaattt ttgtattttt agtagagatg ggatttcacc 180
atgttggcca ggatgggtctc catctcttga cctcgtgac cactgcctc agtctcccaa 240
agtgccggga ttacaggcat gagccactgc gccagccaa aatcacccaa ttttaaaata 300
ctgattcaaa aacaaaaatt ccacgatgta ngcctaacag aacttgatag gtanaaattg 360
ggggaggcca ccagtttgtg acccctcttg taaatgagga tgatacttac ttggcacaaa 420
acatctgtct ttgtggaact aactanatgg tcctaggtac ataaacttaa ttttcatatc 480

ttgccaaaat ngaagctttt ctgtgtatcc aaatatattg ttcaaaattc tcccaccagg 540
ttcaggaatt ccattaanat ggttgtnac ccnnaaaaaa naatc 585

<210> 7701

<211> 525

<212> DNA

<213> Homo sapiens

<400> 7701

agagatggaa cttgctatgt nggccacgat ggattcaaaa tcctgggctc aaganatcct 60
cctgcctcag cctcctgagc anntgggact acaggtgtgc accgccacac tccacagctg 120
atgttttaat aaagtgccac tgagtatcan actgatcaaa ctgaaaacat cccagaactt 180
canaccaggt taagggggcc aatgagaaga tcatgaaaag tgacatcaga tgaaagctga 240
gatctgtgaa agtttcaa atcagttttcc nagtaagtcc acagaccatt tgataggcta 300
agcccagttc tttacacaat gtnncagcca tcatgtctga gtactaattg ttctcttccc 360
actggttttt gtgaaatttt ctgttctgtt accttttaaa gattctacca agtttttgac 420
tgtttcaatt gcaaacttat tgcttttctn cttggtnaan gactttctgt ttggagcaaa 480
tggtacaata aggataccac ccccnngcc gattacttga aatgg 525

<210> 7702

<211> 306

<212> DNA

<213> Homo sapiens

<400> 7702

agaaaatcaa ttgctttaat tgcattgcag cagggaacct cagcaccatg tnggggaaga 60
agaaatggga agtcttggtt tcanaatgct tttggctggc cagaaggtgg ccaaacaggg 120
caagggggct ccctctgctt gggcattgtc caccctggt cantgagang ggggcancan 180
gggtgctccc cacggcantic ctgctgcggc ctccctcct ggcctattcc tggggcagga 240

acaaactcca gccttcctcc acatggctga ngtnatcanc acccctaccc cangggcatc 300
ttcnca 306

<210> 7703

<211> 541

<212> DNA

<213> Homo sapiens

<400> 7703

cccaggcttt ctggccacct gttacaaaag caatggaatg ggagcaaccc cgcaaaactg 60
gtcaggaggt attgccacta anacttaagg aacagtcana gcctatgcct gtcgtatctg 120
atttggggag gcaggagtag ggctatgatt tttaaaaaag ttaggctagg cantgtcact 180
tacaccctt ccagctgtgg tacttcatga tcctctgaac tttaaactcg agaaagcaat 240
atatcacctg gaaccacgca gcatcctgaa cccctctct gggcaaggct tggaggcatg 300
gcgggtccct tcaagcccag ggtggccttg acattcccg gatccanttg tcagcctttc 360
ttttctcgtt gcacctcagg tccatgcggg gttcagacct agaactcaaa cttgngtagg 420
ccaatgaatt tacctgttcc aagaatccaa aacagggtgtt gaaanataaa aatctcctta 480
acccaatccc ttntnttgna agggaacaaa aatccttgga actttggcca ggggtcnccc 540
c 541

<210> 7704

<211> 332

<212> DNA

<213> Homo sapiens

<400> 7704

gcactctctt cctgtacagt atttattgtt cctggcactt tatttaaaaa tntttgaccc 60
tcactgantg tctgtgtgtc tgtcctgcat ccctgggttg gtgtcttgaa atgtggaggg 120
aatgcnaaga actgaggtca ggccaaccgg ttnaaaaacc ttttccanan tctgaaaaca 180

aaggttaaaa cctctcccta ggtctgaagg cggaaacagg cggccttcca aaaaactatt 240
ccaagggcgg agggcggang cagggaccn ctctgggtct naatgctggg gcaaaactga 300
ngacaacccc ccctaccctt aaaaacntct ga 332

<210> 7705

<211> 426

<212> DNA

<213> Homo sapiens

<400> 7705

caaatgcaaa tagtctttat tatgagaaag cagtgttata taggaaagtc acatgctggt 60
ttctttctaa taaaatgaca aagcaggttt cttaaataat ttacaaaggg canaaattgc 120
tcttgaacag ggctaccctt cctggcacat ccacagtgt ctgcactgag catataaata 180
ggtacccttg agcccagggt cgtaagcctg gaaatatctc ctatgccttc ctccgagtcc 240
ctggtangga aaggagggat nanagtgggg ccctcaaaag ccttggcacc anaaacacag 300
tggttgagt actctgcgga tgactcccca aaaaccaggc acccggtac agagctaaga 360
nctctcaaat atctgatgt agcacttcat gtnttanatg angcaatan aagctcaagg 420
tcaagt 426

<210> 7706

<211> 509

<212> DNA

<213> Homo sapiens

<400> 7706

ctagtttgt tagtaatttt actgcataag gaaattacag agattgcata aatcattagg 60
tcaacagcat acagagaaga aaaaaacaaa acattgtttg ggatcaaata aaaaacagca 120
ggaacaactc aattcttaaa aataccacga attccccgaa tgtggctcca tttgatagaa 180
aattttgcat tttctggata atgtctgtag ttacattaag caaatggaa aacggccttc 240

agataaacac actaaaaagc agcttacaca gatgtgttgc cctcttcacc ttggatgtta 300
 caaaaataaa gatgtgaggc tgcctgctct tgcctaaagc atggcttgaa ctttcaattg 360
 atagtaaccg cttatgaaaa atattacatt acataatctc ctgtgtattg aaattgcaca 420
 agtcagagca tccnaaaact gcaagagtca atttcttcct atggggaaaa gcatatanat 480
 attctatgtt taancctccat tccncnttc 509

<210> 7707

<211> 594

<212> DNA

<213> Homo sapiens

<400> 7707

gaagattaat catttatttg ggatctagat ccatatatct gaaaactgaa gtataaagtt 60
 tctcatttcc atttaccttg tcaacaaaca tatcccaaac atttcagcat ctgtaaaagg 120
 tgatctattt agcatctgta ataagtgatt tatagttata tatgctaaat aaaggttgac 180
 acagctggat cctaaaagct cagattttat aaatttataa tagattaagt atttatgcc 240
 aaaaacaaga actggatcta ggattttatt ttaaattatg gaagtctctg gggaaaaaaa 300
 atagcaatgg aatgacaata gatgtcagat atttctctga gaagtatata gtttctcaat 360
 tttcgctagg tagtgcaccc caactgaatt aaaactaaag catatttaca gtgcattttt 420
 tctcactaaa atttcccaat tctaaaatgg tctggccagg cngcattggc tcagcctgtt 480
 atcccaccac ttggggaagg ccaaggcagg cggatcccaa ggtcaggana ttgaanacaa 540
 nccgggctna catggtgaaa accccttcc tctccaaaaa tttaaaaaaa attt 594

<210> 7708

<211> 611

<212> DNA

<213> Homo sapiens

<400> 7708

aacattactt tcttagattt tatttttttc aaaacattat ggcttaagga aaatagttta 60
 cttacttggg gacttgccta ttagtagct attaaaaaa cagggttttt gtgagtttac 120
 acctgtttg tctacttgat gggactgagt ancttccttc aactganata gaatttgtct 180
 accactgcgc tgggaanang cattcacttc aaatatctta aatccaagct cctgggcaca 240
 agcatacact gcagcagttt ttcccactcc tgttggccct gttataaggg acagtattgc 300
 aaagacgact ctcttcttca tcatctgaac tgcctttaaa gtctatgcca cccgagaaat 360
 cttcatgttt ctcatctctt tttcccttca gattctgcct ttcttccaat tcagctcttc 420
 tttccagtc tttcaacca ctatgtaact tttttatagc taactcattt cctataaatt 480
 cactggcaag tctgaagttg aatacttttc tgntccnaag catgtcttca gttcccaaaa 540
 tcttgaaaa actaccttat cccaaaaaaa ttgtttcctt ttgctaantt ctccgantcc 600
 caatnggtct c 611

<210> 7709

<211> 297

<212> DNA

<213> Homo sapiens

<400> 7709

acagtctctg attttaatga gtcaatctca aggcaaagct ataacctttt ccatgtgaac 60
 ttaaaacgga aatcctacgt gtttggctca gctaccatag acatgtcttg ccccagagtt 120
 ccagtgtatt tttcaccttt agtttcttgg ctctctccg cctctacacc agcctcatat 180
 ccacacggga tgctctctgc tgagtattgt cttgagttag ttctccctct catgttcttg 240
 ctgatgctac tentggatcat agtatcacct gacgggggaan gaatntnctn tgaaagt 297

<210> 7710

<211> 475

<212> DNA

<213> Homo sapiens

<400> 7710

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gaaggtgatt agttttcatt taataaaatt aataacacat tacatgtaga tgaagatata 60
acaaaacccat ncgaaagcct gtcagagata ttcaactaga aaactaaaac agtagccact 120
agaaaaaaga catagtggaa aaatttttga acggatatgc tttttgttga ataattacag 180
taattactac caatatattc agaccaacaa agattagaaa gaacatgcaa aatgctgaga 240
aaatttctcc tacaattaaa acaaatgtgt ttttatgaga gagaaaaaaa taagtcnagc 300
tcctaaaatg aaaattacaa aacatnggga ttaacaattt attaaaaatt accccttgat 360
ttttttgagg ccaaaaaaag tngttttttt aaaacaaggg catgaaaaag acttcagatt 420
aagactcata ctctgttcta aatgaaangt antaaaacta cttctngtan aaaat 475
```

<210> 7711

<211> 303

<212> DNA

<213> Homo sapiens

<400> 7711

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cactggaaag cttanaatga agctgctctt gcctgttcct cctgagaacc anagcagcag 60
tggtccaggg cacaaagcat aatgatctct catgaggatt cctatctgaa cacatcagaa 120
gtcctatgaa cataaatagg tctgttttag aatataaatg gtagtgactt cctgcgctcc 180
tgaggcgggg caaaataatc cataaacaca taatccttct gggcaataat ntttctggac 240
tcnccagcaa anggtcttan gaacaaaagt gggggtnaaa tccgggaaaa aaaaagttct 300
aaa 303
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<210> 7712

<211> 477

<212> DNA

<213> Homo sapiens

<400> 7712

acagtgttag agaattttgt tttattgttt tgggtggcatg ggcataattg gagaaaccat 60
 tgggggtattc actagtaacc tacattgtta gtttccttgg ttccagcagg taatacactg 120
 ggttccgtca ccctgganat ggctacgggg aggctgagtg acttcccaaa gtaataaaga 180
 gtttggaatc agaattccag gtctgactcc cagcanactg ttctatttcc ttacacacct 240
 gcactttcat caatcttctc cagctccaat ttcttgtgcc cttcaacag catctggcac 300
 agganaatca taggctctcg gaactcggcc tgacagatgg cgcagatgtc accagcttct 360
 gtgcactgct gcccggtggc tcggactcca tanttctgaa aggtacanag aagcttcagg 420
 gctttcctaa ctccgccac acntccacan atgtctaaag gacttgcanag agctgtt 477

<210> 7713

<211> 618

<212> DNA

<213> Homo sapiens

<400> 7713

ataattaggt tttttaattg cctgaatata actgaccatt tccacatgcc cttggacctt 60
 cgacatgcat cgcgtcatga gattcaacgt atttggagct gtgacttttc tgcagcatgc 120
 agtatcataa atattggaga actagagact gaattatcgc ttgtgtaaatt cttatcatgt 180
 tccatagtaa tggctccttga ataatagcct cagcatacat aatccatctg tatggtttca 240
 tccaagatgt atgttttgat atctagtcac ttggcaggcc tcaagagacc tgattcacat 300
 acattgctat gatttctctt tagtatggaa tctctgatgt tgattaatgc tagaacttag 360
 catgaanagt ttgccatact cagtttgtaa gaactctctc atgaatgaat tctctcatgc 420
 tgtgcaaggt gtgaattatt actaaagatc ttaccacaca catttcatct gtacggttct 480
 ctccagtatg gattctgtga tgattgccag gtttgaattt cnaatgaaat ccttacacat 540
 tcntgaaatc tgttccggtt ctcccanta tgaatccctc ctgttttttt aaggtttaact 600
 tnggggtnga aaaacttg 618

<210> 7714

<211> 513

<212> DNA

<213> Homo sapiens

<400> 7714

```

gtaacaaaca gtaccaatTT attttggccg tgggtttttg ctttttttcc agttgatgac   60
tttgtgaaca ttcccaggta ttggagcctc tgtggcctta aatgtggctc agtggaggga  120
gaccancat agccaggcca gtatggagca cctcacgcac agctctcana agctgcaggc  180
ggacgaacat ttgaccaaag angtgtggtc gaggctcccc cangatgtgt acccggttgt  240
agtangaact gaaatccatg ctgagctgta ccaggaactt gcatatctag agacagagac  300
tgagtcactg gcccatctct ttgctcttgt gccccaggcc anaataaaga atanagtgt  360
naatgtcctg gttgtctatg cctcaccatc tctgtgcgta cagcaatgtg gaccccgggg  420
ctgtgcantc cancaactgt gtccggctca ncanatccgg aaaggggaag atactgttga  480
aaaacaacac cactcccccc tnttggggaa aaa                               513

```

<210> 7715

<211> 223

<212> DNA

<213> Homo sapiens

<400> 7715

```

ggcaggaaca gtggtttatc aaccaggcag gcctccccag cccggccact gctccccaag   60
gggctcgggc tgtgtgggct ggccttggca aaaggtggac aatcctctag gtccaaggac  120
atgggggtca caaaagtggg ggccttgggc ccacacattc aaanaaaatt cccaaaantt  180
tccagtggct ntccaagca ggtatcaggt tcggcccaca cct                               223

```

<210> 7716

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7716

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gcagatggga catatittaat aaccaagggt ctaagcaaag ttctgaaaag aaaacttttt 60
gtagtaaata tgctagcata nacaagttcc ttgtgttttc caacagggtt gcttcaaaat 120
caatccttac agcttcaana acaggagaaa ctcttaacaa agaaagggtca gcaaatttat 180
taccacaaat tctaagatat tgctcttctc ttacctgcct agaggcagcg ggatggacta 240
catgacctcc tggagtccca gccagttctg ggagtctgtt aagtccggga tgtgtgggag 300
ctttttaagg agtgatcatt ggctctgagg acacttcaac tagttggcct tctatcttga 360
ggtatataaa ctgtgaaaaa gggtttctat tctctctgaa agcacatgtc tgtgttgaac 420
atttcagtaa atttattttg aactcaggat ttcatgtcaa tttttacaca cttgattttc 480
caaatcacat ccaactcccc accccaaacc acatacatcc aaatcaactc ctgttaccct 540
aaaaaatcac tgtccatgtt ccngaaaatc cctgttt 577
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<210> 7717

<211> 515

<212> DNA

<213> Homo sapiens

<400> 7717

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atgaaatttc attttattct gataaagact aatatatgct tgataaccta gtgataatcc 60
ataagtttgg tatttcacaa catttttttag aaagcacata agattaacat tcaaataagg 120
nattatagaa agttttataa agaatgaagt gtttcctata tttcttttaa aaaaccttgg 180
ttcatcttga aagatcgatg aattttttta atatcagaag aaaagggaaa taaaattttc 240
ccccaaaac acataagaac cacttactgg cacttgtatt ttaagtacct gggaaaaaaa 300
cggaacagat ttttaaaggc aataacgact tgtaagacgg ctgttttcat ttgatttggc 360
acgaagtaaa gtaagagtaa atatgccatg ggaagacata atcaagtttt tcttccatct 420
ctcatatttc cccacttcta ccagaccaca cagtacatca gcaaccatcc tttnatttcc 480
aatttttaaa tggntgctcc nacaacncaa ttana 515
```


<210> 7718

<211> 521

<212> DNA

<213> Homo sapiens

<400> 7718

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aactgggtga agttagactt ttataagcaa ttatctctg tttaacagta ttcacattaa 60
attagttaca acattttaga atgttttaac acgatttacg caatcagtca agtggctaca 120
tttactagtt tattgaatat gaggtttatc catttagcaa tgtaaggaaa actttagttc 180
tgtttctcag ttatcaggag tgaacataaa actattctaa accacaatta gtttaccagc 240
atagtacaaa ataaaatgac agcgaaataa agcaattaaa gtaacttatt tttactcata 300
aggttaccat aataataaaa attcctttaa ttttcaaagc actctcatg aaaagtagtt 360
ggggtaaaat tactatttgt tcaaagtaga ataaaaggga aggatgctct aattaaacat 420
tttattaaaa ttaaacnctc tatttgaaag gtagaaattt aatctggaaa cctanatana 480
tttccaattc cgataaaatg ggtgacanc c ataacnggta t 521
```

<210> 7719

<211> 260

<212> DNA

<213> Homo sapiens

<400> 7719

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acaaatcaaa aggctttatt ccttatataa acccacactt aaaaaaata aatagttaat 60
aaattatagg caaaccagtt ggtctcagcc acgcctccca ctgaggcca gggcagccgc 120
tgcagcagca gaagagcggg aagtgtacca cagcttggtt caagggcgtg gtctggactg 180
gggacnaang gacagaagaa gaagcaaggt ctgggtgaag gcaaggatgg gggctaaaag 240
tgggttcctg aagcntgcca 260
```

<210> 7720

<211> 527

<212> DNA

<213> Homo sapiens

<400> 7720

```
aaggaaaagc tacaacctc anggttggtt tatttaaacc aaataatctg agcaagacat 60
atatacatta aaaacaaatg aacacattaa aatttcaacta ttttacaatc taaattctag 120
caacatatac aaatactgag tgactacagt acatgccgag gtaanataag tacattctgg 180
ganaatatca ctgacgctca aaccattttt atttccaata tgtatttcaa tacatgtttg 240
tttccacttt tcccagtgcc acacacacac acacaaaaac aaaacaaaac aaaaaaaaac 300
agtcncaagt tggattacat tanaattggt gccacagttg actttaaaag cattttaata 360
accaccnac tcttaaattt tgcagtttag ggacttcnag ttcagaacca aaaagcagan 420
aacgttcatg tgacatgatg tttctatana cctcttgctc tctaaggatga caatgcaaaa 480
ccagggggaa anggnittaa actttgtccc tccacanctt tgttggc 527
```

<210> 7721

<211> 500

<212> DNA

<213> Homo sapiens

<400> 7721

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aaaagtttaa gtcagcattt tataaaaacg agaaacaaaa taattgcttt cacaatgtag 60
tacttgaaac taaagtctc cagctatcaa cagatgtgac tccagcatca agggcctagc 120
aggaaaattc tgaatgggtt acaacagtgc acataaattg caggtggctg gggccgtgtg 180
tctatttgat gcttccana atgtgtgctg ctagtcacca tttccaccat tcacatattt 240
aacattttta ttanactttt atttagcctc atcataagaa tataaggag atcatanatt 300
tgatgtatga aattttttaa ttcacactaa aatacattac gattaaaatg aattatcttc 360
naccaccgt tttgctatct tttgctgagt aatctgtgcc agtccttggtg aaaaatcttt 420
attttaanaa aaaaatttag tttacaaaaa aatttaacaa gtttcnctt aacaaaattc 480
```

ccccggnang gaatcccngt

500

<210> 7722

<211> 474

<212> DNA

<213> Homo sapiens

<400> 7722

cccaanaaaa	tcattttcta	gtctgctccc	ttcttcatct	gaggtttgtc	cttctaactc	60
cttgaaagta	tcttcacaaa	catctccagt	ctctgctgcc	ccangaacca	ccccaaanag	120
tccccctgat	gtcctgtag	atgactctga	tcctttaaaa	aattcctgct	tnggagtcaa	180
ctctgaaccc	ttcatcatnt	tctcacccaa	ggaggccatg	ctatggtgat	tttctggcat	240
catgttcac	tgcagggtc	tctgactgag	tgtgagactt	tnccatttct	tctgagtgtg	300
gtctacanat	aggctctcat	atgccacagt	atccgaaatc	ccactgggga	ggtggtgtgt	360
ccctgggggtc	ataaggang	ctccangtgg	gctccanggg	ctgagcccca	ctgaaagggg	420
ttaggttgga	agaaatccct	ttgttgtacc	canantgtt	gtctccccga	aatg	474

<210> 7723

<211> 526

<212> DNA

<213> Homo sapiens

<400> 7723

attaaccatg	ttctggtatc	agaatggtgt	tccttctcca	tcagaggctg	ggaaacgtat	60
tataattagt	ttttctccca	cataccttca	ccaagagcag	tgaanaataa	ctgaaggctg	120
gaccatgcat	ccttaaaagt	attgcatgag	catctccacc	tcagtatgga	anagggatgg	180
acaacccct	attcatacct	ctgagttcct	gatggcatta	gtcatatagg	taagtcatct	240
aataatcttt	cttaagactc	tgcaatggaa	aaactggttg	tataaagtct	tccttgcctt	300
ctccatttgt	atcagcaatg	gggaatgctg	caaaacatca	tcttgctcat	gtgatggtga	360

tggaacaaat atcacaagga gttggtaata anatttaatt ttccagtagc ctgcatgaat 420
tgtccccaca taaaactgta cagtttagtga ctgaattggt tacttaantt cccagttttt 480
tacntttgtg gngantgaaa tttaaagggt aatttcctta acantt 526

<210> 7724

<211> 491

<212> DNA

<213> Homo sapiens

<400> 7724

ggtctgatgg cacatatatta ttgttctgtg gtctaatac agtgtttcta aatgtaaaaa 60
gtgcatatgt tgggtgtagct agtcccgcga cattgagctc ctctgcatga agacactggg 120
ctcctgcatc cagctgtttt tattgcaaac tagctccttt ctccacact gggaacttta 180
gtccacgagg ctgtcaccac cctggtagca ctgggccagg cttttagtagt cctgcagcag 240
ctctgctacg tcactgtgct ccactccanc atccatgaaa ctgggccagc gccgcaagtc 300
naatttggtg aggtctcttg ccaaagcttc cannggtctg gtgcaaggac aaaaaagaac 360
acatgcccc aacactggga tgctctccac tgctgctccc ttgggggaan caccagaaac 420
atacccngtg gactgcaacn ttgaaaaaaa gttgggggtt angaagaacc nccctgccag 480
ggaattctcc a 491

<210> 7725

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7725

ggaaaaatta ctttatgaag ccttaagcac taagaataat taattaaact gtaatccagg 60
attagatata atttaataat agttcaattc caaaataaaa gttattgtag gtaagaccat 120
gaaatttcct aacacttgat tttaatacat tgcgctaatt ttctaaaaca actcagagga 180

acccatatatt acagtaggca gaatatttat gaaaaaaatc tggcatcagg tatattttata 240
 tatgtatgtg tgtgtatacg tatgtgtgtg tatatatata tgtgtgtgtg tgtgtatccc 300
 gagattatat gaactaagaa acaagttgtg tatcttaaca gcagtactan agcgcagagt 360
 ttcagacttg ggattttataa atgctttcaa cgtgtgggtg ttgggaaaag gagaagactc 420
 catctgattt tccaaaacct gaaatttttc ctcaggactg aaatccaaat ccgtaactgc 480
 cncanaaggg aaaaagggaa acctttcccc cnttattggt cccnccgcgg tccgaaaagt 540
 ccagtttccc ng 552

<210> 7726

<211> 599

<212> DNA

<213> Homo sapiens

<400> 7726

gctcttgttt acattttatt atcattatta gtaataaacc aataaaaact gaataacaaa 60
 ggaaaaagct caagataaat aatttcttcc ttgtgaattc aaacacatgc acacacacac 120
 atcctcctct gtgtgtgtta ctctcctc acattctgtc ctacggtaca aatagttaca 180
 caaaagtcta caaaacgcga gtagcagacc ccagctgtgt taagctcagg ctgattctca 240
 gtctagatca ccagcttctc cagcctaagt gtacttgtgg tttcatcctc ttcatttgac 300
 ccaaaatate ctgggaggtc cagcatcctc tgctcagcct cagtgaggcc aaacgacgta 360
 ttgtcatana aagcaaactc anggtgagt gggaagcttt gacacttgtc ttttctacac 420
 tgagaaaagg ctcagaaaac tgaccctctg gtagttatct ttgggggatg tggganaaaa 480
 ctacttcctt gaaaatacnc tgttaatggg ggggaaggnc cccaagaact ctgttggggn 540
 ccgttctctc attcccgcca ctaatccctg cctgggggan tccccaaggt ntggtttcn 599

<210> 7727

<211> 497

<212> DNA

<213> Homo sapiens

<400> 7727

gtagaggcaa ggttttgcca tattgcccag gttggtctca aactcctagg ctcaagtgat 60
 cctcctgctt cagcctccca aagtgcgggg attacagggtg tgagccattg tgcctgggtct 120
 taaaatgtta aacatggagt ttttaaccaa caattctact cttttatata ccaganagct 180
 gaaaacacat atccactcta aagctcatgt atgaatgtat gtngcancat tattcatagt 240
 agccaaaaag tggaaataac ccnatntcc atcagttgat gaagggtgna tatccataaa 300
 atggaatgtt atttggccat aatacatgct atatatgaag tacttaacgt ggataaacct 360
 tgaaaacatt aagtgaaaga agctcatcac aaaacttcac gtnatatgat tcatccatt 420
 tatagaaaat gcccanaaca gacaacctat aaaaacaaaa aatgggtcnt tngccaaaat 480
 aangggggaa ggttggtt 497

<210> 7728

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7728

aggaagattt cttctttatt cctatttgat ttaaaagaaa aagatttgcc aagggatggg 60
 tagggttaaa ttaaaaacat ttaanaaac atttctttat atggagcata cttactgttt 120
 ttgctttgag tgcattctga tgaaatatag attccaaatt ccccttgat ctcacccttc 180
 tgtctagtgc tttgccctct atttggggca gtaattctat acatatactg taaatgtctg 240
 tcctgatgat caggatgcc aagctctgaa tccaactgct gccaccaana naacggctcc 300
 tttttggagc cattacacac agatcatcac tcaaatcagt agtttctctt tagaaaacta 360
 ncaatttntt ggtagtctgt caattaagaa aagaaaatga aattcagtta cttantaagg 420
 gaaaactgga taaacaggag gctggtccaa acgganattt ntatttagac attccccttt 480
 tncctggcct catcctttcc acagctattt cccttccttt aacacaccaa gttctttttt 540
 tttccaata caaaacntaa atncctgang gggg 574

<210> 7729

<211> 542

<212> DNA

<213> Homo sapiens

<400> 7729

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ggaattttta atttatttat catgtttgta agttacagac atttatgttt ttcagcaaca 60
gtttataata gttacatctc atacttcaac tattagaaca gagagaacat taaagtacaa 120
agaaagactt caaaaatgag gttactgtga tgtatcataa aaggagttaa aattcaaaat 180
atcaaagacc tcncctatcg gactaaacat aaatcttaaa acctcctatg gtcctctgag 240
cctaaaatta caaaacttag caactgctta aaccaaggaa ttaacggttc tgtgttttca 300
aggttaagaaa acaaaaaatg ctttggtaaa ctacctttaa tactagttaa aatgtttctg 360
ccttgtttgt atctctcttg aaagactgta tataagtaca ggcacagcat ntatttgaga 420
aaacatctca caaatttcat ttactatang tttctcaata atctttacat ttaatcaatg 480
aaaaaaattg atccatccnc ttgaatttta ngttaaaaaa attnaaaagt nttccaaggg 540
ac 542

```

<210> 7730

<211> 523

<212> DNA

<213> Homo sapiens

<400> 7730

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cataanagta ctttacttgt ggatttcttg gctaaatgta ttaacatttg tttctnctca 60
ctaaaagtcc acattttcaa caaagctgta tgtgtaagat tgatagtttc attccacttg 120
ttcttttcgt aactgggtgta agccaccagg ttctccgtgt actgcaagat cnactttaca 180
aactttaggt actgctgata ctcatgcgca ttcttccac aaacagcatg aatgttgacc 240
aactccagcg caatgagtaa cagtatcagg ctgagcacag gggacagtag tctgatactg 300
ggcctcactc tccttctgca cctgcaaggc tgcggctttc tgggagccag ggctagcggc 360

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gtatcgctgg ttggtgtctc agtaggaana cgatccaagt cctttaacac acaacaattc 420
tcaggcatat ggtgatacag ctcatccgtc cattttggta atcaaanaan tggcaggctt 480
ttgnttccaa aattatntnc tatccttaaa gggttgccaa att 523

<210> 7731

<211> 317

<212> DNA

<213> Homo sapiens

<400> 7731

ctgttgccaa aaataacctgt ccttacaaaa ccacaattat aaaggtaaaa gtgaattatt 60
agcaccaggt gcagaggcat ttccaaacca gaaacaccan atcttcaccc tggagtggac 120
agaggggagg atgccacctt tgataggact ctgcanagcc cagcctggaa ctgggaaaat 180
tctggctggg gaagccacag gcatcagctg aggggtcatg tccggacccc aganaggccc 240
aganagaggc tgagaanagg agcaccccgg gagtggggga gcagggganc ctgtcggggg 300
anctaaggag gggctca 317

<210> 7732

<211> 515

<212> DNA

<213> Homo sapiens

<400> 7732

aaatctgtag aattctagca aattggttaa aagtcaagtt catgggagat gaangctcag 60
tggatgacac atccagcgat gctggtggga ttcagacgct ttcgcttttc aactcactta 120
gcagcaaagg ggatcagatg atttctgtta acgtgtgtat aaaggatgaac tataattact 180
ttgtgtttac ttctgtgttt tcattacttt cacttactcc cagatatcac tggaaccatg 240
caaatactgc ttattcccta atgtggtttt gaaagactgg gaggctcaga agcaagtatt 300
atgtctgtcc gtacatgtcg tttaaaaaat tattttttta agccagtcaa attgagtagt 360

gggcaccaag cccagcctgc ttctttactt tnncgtgttt aatactatat attggattcc 420
 taaatgttat atgttcacaa aactttttaa aaatgaggaa atgtttaaan aanttttgag 480
 gatgaatgan taagagcccn cccnggtcct tgcca 515

<210> 7733

<211> 539

<212> DNA

<213> Homo sapiens

<400> 7733

atcatcctgc ccatgtcagt atacactctc ttattatgg gaatgaaacc aaataataag 60
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 gagtgatcta actaacttaa gctgaccctg cgactggctg aggataatcc cttctgtcca 180
 ctgcaccgtg caatgccaca ggtcatgana tggtcagttc ctcttgctct gtgtcgtctg 240
 aagcaagtcg aggccctact tctggttccg cccttcttcc ttgggcttag atttgctggg 300
 ttagtnttt gctactattg tcaagactgt actgtccctt taaggtacca catgccacca 360
 tagcttacac agcagtcctt tagtacttta tccacctcct gtttactgag atcttctcca 420
 cactcttgag tcaaccgaga ctggatcatg ttctggcgta cccggttaatt ttgggaaaaa 480
 atttcaagca aaacctgtcn atgctgatac tcatntntcc aaantcccca aaaggnaaa 539

<210> 7734

<211> 335

<212> DNA

<213> Homo sapiens

<400> 7734

agatgaaagt tatttattgg tgtgactntt ttcctttagt gagcttcctt tacacagcat 60
 ggtgtaaata gcatcagatt gaatgaaaag ttgtttaaat gcaaccataa ataattataa 120
 taaatataca tcaagtaact ttacagcaca catttttttag ggccaagggt tggatctgtc 180

tggacctcaa tgtgctctcg gagaggcagc cacgttagca gcagatacct tacagcttgt 240
catctactca nntgatggcc aacaaaagct tctgaactcc tcctggggag gtagctgaca 300
attcctttcc agggatgagg actanaaana accaa 335

<210> 7735

<211> 422

<212> DNA

<213> Homo sapiens

<400> 7735

aacttattaa aaagatttta tttagcactt ggttctgttg gctgggaaat tcaggatcag 60
gcagctgtat ctggtgggtt ctcactgactg cctcatgctg catcaaaaca tcgtagnaga 120
aacagaaggg gaccgagttt gtgcaaaca aaagcgcaaa atagaagang cagcattgtt 180
ttataacaac tcactctctt gggaactaac cattcccagg agaaccant ctcagtgtca 240
aganaaagat gttaatccat cttagcaacc taattacctc ttaaaanttc catctccaac 300
actattacat ttggcaattg aactacaaca tgagttttgg aggggccaaa caacatgcaa 360
accatancan cangttttaa ggtaaaaaga tggganaaaa ntcccagaaa gatttcctgg 420
aa 422

<210> 7736

<211> 278

<212> DNA

<213> Homo sapiens

<400> 7736

aagtgatcaa tgctggcttt atttcttcat aagcagtaat ttgggtcttt ttcatccaac 60
acaacgcagc attttcataa taaattcaca aaagacaata caaggaaaca cctactgaat 120
agaactctgt cgagcaattc atgtttttaa gttggactct ataccaaact ggcattatgg 180
tattatagge atttgatttt tgttttctta ttttcagttt gtcantttct ttactaccat 240

tatTTTTTtc tagccgggaa anaacgtttt atccnnaa

278

<210> 7737

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7737

gttggaactt gtccagatct ttaggctttt acaatataga cttctgtaat atggttacca	60
agagccagaa ttctaagata tagccaagat tctaagattt aaccagtatt taaaatacat	120
gcatttaaaa gaaatccaga acaaacagca tatgaatggt ctggcatcaa aacagggcca	180
ctactttaca gcttaacctc ttctcttaa ggggatctga caacatgcca aacttttggt	240
tctcaactgt ttggttaaaa tttttttaa aacagaatta taatcttgag tnatgaanga	300
aaatgcatgg attgaaacct ccctgtggtt tataaaagtt acagaagaga tttatgcttt	360
ttattactaa actcagtttt aagcattccc ttgtgtccg aaaataaccn aganggaaaa	420
ttaaaccnc ctgggaactt ggtcttgctt tccatgtcca acttctcaag ttagtccaag	480
ctcttncctt atatattccc cgtgaatanc caggtgacaa aaattctttt taaaaaaaaa	540
actggnntnt aattaacaaa aagaa	565

<210> 7738

<211> 255

<212> DNA

<213> Homo sapiens

<400> 7738

agcaaaaagt anacttttat tacagcagca actgangcga atcgaatggc cccccagggn	60
caccactgca ncaccacctt tctctccgc cccggnccg ccagcgggat tgtaaaattc	120
ggctccccta ntgccgtgg gcctccttc cacacaggct gggcggganc cggcaaatca	180
acgantaacc cccaactaaa aagggggtng ctgaaaaagg cccaggccca cntctgtgca	240

aaacaagtna acaaa

255

<210> 7739

<211> 271

<212> DNA

<213> Homo sapiens

<400> 7739

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aaaacaacac acatttatta cctaaaagtt tttgtgaatc aataattcaa gaggcagcttc   60
ggtgggctta gaatcgctca tgagttgcag tcaagatgcc agctggggct gcagttgtct  120
gaangttctg tttgggctgg cggatctgtc tctaactgg gtcactcaca cggccactga  180
caggaagtct tagctcttca tcacagtcac atgggcatct ccatggagct atgtggtatn  240
tncncncaa catggcagct ggcttgttct a                                     271
    
```

<210> 7740

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7740

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agttttncaa agtactttta ttcactttat cttccatata tgttatctcc tctgattcca   60
gcaataacag cccggtgagg tagccagggc aagtatgtat tttacacatt agcaggaagg  120
gaggctaaac gaggtttatg taacttactc aggctgaaac actgaagaaa aatttgtgac  180
tctcatttca gtgatgtttt ctgcattatt aaaaaatatt atgctactcc tcactatatt  240
atgttgatgg ttgaaatgtc attataaagc ttaatttata tgattctctt gatganggat  300
gatgaagcaa atgctccatc aactcactag tttacagggg caagcatttt cctacatttc  360
acacataatt tgattacctc tgcctaagt gaataatcta ctatctgggt atgagaaaca  420
tgatttgaaa aacactaaac cactatatta tttcaacaaa gaaccacttc acacctaant  480
taaaaggaac ttcaaaaaaa ntcctaacca aaaaaaatcc aatgatgctg aaatccantc  540
    
```

aaaat

545

<210> 7741

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7741

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gaacttggca cctttattca aaacagcccc aaactggaaa tagcccaaat gttcaactgg 60
tcaatgggat aaacaaatga tgatatatac aatgaaatac cacagtgcga tacaatgcta 120
aaaactactg ataaatacaa catgaatgaa tttcgaaaac attatgctaa gtgaaaaaaaa 180
ttagacata ggagcatata ttgtgcaatt ccatgtatit gaaatctgaa cacagacaac 240
actcgtctat atgacgggga gcagacctgt ggttgccttg ggcatgggga atcaagagtg 300
gggactgact acaaaaaatca caaaggaact ttttgggttg atagaaatat ttgatatacct 360
gattgcgata gtgatgggta cttaggtgta tgtgtctgta tatgcattan tctgttttca 420
tactgctata aagaactgtc cgagactggg taatttataa aggaaanaag ttttaattgac 480
tcccagttcc ncaggactgg ggaagccnca ggaaacttcc atccttttta aaaaccnaag 540
gggaacccaaa anccccc 557
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<210> 7742

<211> 517

<212> DNA

<213> Homo sapiens

<400> 7742

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gggttcacaa aggattatit atcaaattat tgcaaacggn anataccttg tgacanaaaa 60
tttccttggg tctggaaaat aaaacattta cgtcataaaa acatccttat aaattaattt 120
tacgtaatta attttgtttg gcttgatctt aattagcaat ttinggactat agctgattgc 180
gaacgcttcc aaagaanaaa ttaaaataat aactgtgaat gacaaaaacc cagaacagcc 240
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ataggtaaag atctgattaa cattaccaat taaccaggaa atttaagtgc ttctgtggca 300
 tacaatcatc caacataaaa attgcaatta ttacaggtat ctcagcatgt cagtatctta 360
 ggaatctcat aaaatttcac atttctataa atgatgaact tacacaaaca cagcttaaag 420
 aaaggtaaaa caccatttct tatttgacaa tgcttcnagc agtatttgcc aaataaacn 480
 aatcattaat aactnntcca aaaaaaaanc ccttggg 517

<210> 7743

<211> 412

<212> DNA

<213> Homo sapiens

<400> 7743

aaatgactta catcttttgt attatccaat acacagtaga tactcagaat ttactccaat 60
 gaatgcatgt taaaaggatt tgtacagaca caacactctt actttcaaan agcagaggaa 120
 cattttatat antgaacaca tacacactgt ggcaatgtna aactacttaa ggaaggaaaa 180
 atatccccct ccccanccag gtactgagac ctggggctaa aattttttgt cagtcagccc 240
 ccatcccat cccttatctt cgagtgcctt taccaggaaa cctggctttg gtggaaagga 300
 aagctgtggg gcttggggac ctgatgcctt ttcttttggg angaaagggc acctgcacna 360
 tccacaggac agggagtggc cagcancat cctgagctga ggctccnaa na 412

<210> 7744

<211> 529

<212> DNA

<213> Homo sapiens

<400> 7744

cgggcactga aatcttttat tcgttaattt agtttctggc aagtgtttcc tcaaatcat 60
 catgtagttc cttgaacgta aaaccacaca ttaaaaatgt tattccactg aaaatgactc 120
 ctatgcaaat atcgacatgt gatgtgtgtc caaatgccag agcattttga gaaaagaatc 180

ctctacaaat aaaattaagg tataagctga gtcagggatg atccgattcc caccaccanga 240
aatggcccg agctgcacca actcancgag gttggagctg aaaccctgag ttaatgatca 300
aaagggacaa gacaggaagc ctggggaccg tggacaggga aagtgcgcan ccctgattgc 360
cagtgggcgg aacaggggtca ggctcgggga aaacangaag ggtggtgggc ggtgggcccct 420
gaacaaaaca ggcctggccg aagctggggg ccactgtgca ctgaggccaa aagaacaggg 480
tggtgggggc annttttgaa angaacaaaa aaggggccnaa aaaaaaccn 529

<210> 7745

<211> 428

<212> DNA

<213> Homo sapiens

<400> 7745

ggcatgaaca tggactacag cgtttaatgc agacccaaag ccacacattt ttggggagta 60
ggttttactt gcagtacaga ttcttttcat tacagatcac aaaaatacaa tacaatgtga 120
caagcccagt ttaagaatta catgcagtag ctcatattaa cacaaacagc tccccacgaa 180
ggccgacaag agctaaatcc ggtgtcaaca gggttcattg caggagtaga ataatccggt 240
acaaggaacg agaacagatt gaaaccagaa acaaagccat gcctgacagt caatcaaggt 300
caatctgatc atttccatga ccaattaccc ntgtgaacaa ttcaaaatga cggttgaana 360
ctgagcaccc tgtaccaca cacgatgcc ncagcttggc anaangtgca ccaaccttgt 420
ttgaaaaa 428

<210> 7746

<211> 247

<212> DNA

<213> Homo sapiens

<400> 7746

cttttttttt ntttttttac gtactcatga ttggctttaa tatttcttta cactatacat 60

actgaaaatg tttacattta ctaataagga atgccaagcg tatccatcac catttgaata 120
gcttgcaggg gatttgtgat ttcttccatg ttatctcttc ncaaaaccca atctggntta 180
agtcttgaaa ctattctggt ccttacaggt gtttcnggga taaaaggaat gcttatanaa 240
aaattcn 247

<210> 7747

<211> 515

<212> DNA

<213> Homo sapiens

<400> 7747

atataacttt tgggcttgaa agcaccgaaa tcttttctga atgataacaa cacaagatct 60
aatataaata tacttccgta attctttatg cattctatac catgattgta tgataatagc 120
agaattttct tcttttagctt gttttcttaa atgccattct ctaaaagctc tttgcaatat 180
tactgtagct tttacttggt attgcatttt acgttgcttc cattttctga acatagattg 240
gattataaga gttgatgatt ttagcatttc atatctttgt tgatcttggt ttcttcttaa 300
ataagcacgc caatgcctct gaaattgtna ctgtngccca aagatatcgt ttataagatg 360
ttacagcaat tatcattctt atcctaaatt ggcgggatga tgaataattt ttccatttcc 420
gaaaatcttt gtccagtggg aatattctcc cccatttncc cggaaaaann taaggncggc 480
tttattttgg aactttttcc cacctttccc ttttt 515

<210> 7748

<211> 156

<212> DNA

<213> Homo sapiens

<400> 7748

aaagggtggg agatatttat tttctttaaa caaggtcata aataacaaaa aacaaagtag 60
gtcccagact ccggaccatg cagcaggaca ggggtgggag gttgttgagt ggaaagggtg 120

aaggggctac acatcaccta agacnttcac anaana

156

<210> 7749

<211> 501

<212> DNA

<213> Homo sapiens

<400> 7749

ctgaggaatt ggctttatatt agataggaac tctcaaaatg ggagacaagt tcttctcatg 60
 ttttcaatag cagtctgaat agcttttgta aattctctta tgtcttttct cctgatctct 120
 gacactaggg gagactcaag taaaagcttt gacctatcac tcatcttttc ctagcaagan 180
 atagtgttct tcaaagcact agcttgata aaaccaatcc tganatccta agctggctan 240
 aaaaaacaaa atcttcccca ccgctcaaac aactggcctc tttccttacc tttcgcaaag 300
 caatgaactt aatgcactag gcattagcaa agggaatcgt tcactagctg cttccatcac 360
 tgggcctgcc aatgtcccag cacttcacac ctgggaacac aagtgttatt gncacaaaac 420
 acaccaagt gtgctatcaa cacttgtgtg gaaangaaaa naatttctaa aaaaatgtca 480
 ccctcccagg nccnaaatta a 501

<210> 7750

<211> 587

<212> DNA

<213> Homo sapiens

<400> 7750

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 tatttataca catataatat acaccatata tacttattta tagatattca cacaccagcc 120
 cacacactcg cacacactca cagcacaca cccttccagg aggggcgtgt ggctgccttg 180
 gagtcccgt agggcccaaa caagtgatac tgggcttgcc aggcagttgt gaggttttgt 240
 gttttttgt tttaaaaaga angccatttc ctccanatgt gtcctccctc tccccaagcc 300

ctaaaactcc tccccaaaac actctgaaaa aaatTTTTTTT aaaacaagag gttttccttt 360
gctctggccc aagtagtttc tggagantcc aggcccatcc acaagtcccg tgcaggtcct 420
aaaacacnaa aaccgggcgt ggccttggtc aggcctgcaa ctgtnccttc tgaagggaag 480
aagggaagcc tatancatcn aaggcacctg ccaaaataaa gaaagggtgtt gttcctctcc 540
ccccaanggg gctgccnccc cctggttncc aaaaccctcc aaaattt 587

<210> 7751

<211> 573

<212> DNA

<213> Homo sapiens

<400> 7751

acaccaaatt tctgcaactt tataataatg aaaattagaa acaacctaaa tagttaacaa 60
catgggaatg gttaaataaa ctgagttgca tccattaaat ggaatataat atagccatta 120
aaattatgtt ttgtataaat ttttaatgcc ataagaaaat gtggcaattt tgcaatgaaa 180
aagatctact tataaaactg tttacagtat gactccaatt atgtaaaaaa agtatacaat 240
acacatatag gcatacatgg gggttgcttt ttaaagggtg ttacttctgg gttgtgatat 300
tatcagtaat catttttgct tttttataca tttctgcatt tttcaagttt tctatgatga 360
gtatattatt ttacaaagac tacgaaaatt ttcctctgat atactggtaa ttanaatgta 420
cttgggttat tttaaatata tgggaacaat attataatgc tccanctcca agactttttg 480
ggaatacata tcacttnggt aataaactac atccccgttt tatctgttaa caaatTTTaa 540
ttaaacagtt natattgtga taaaacatgt tgc 573

<210> 7752

<211> 531

<212> DNA

<213> Homo sapiens

<400> 7752

ataaataaaa tatacaatgc catttattgt aattctagaa aagtttttta cagaatgctt 60
 ttgttgattt ttgctgactc ttctatccaa cctgtttgca attcaaccat gatatgacac 120
 aaccagacta caaataaatg ttgttacta tctgattcaa caaagcagtc actcatttca 180
 tggaatggat atgggctgtt actcagtga aagacacatg anatggttca gtgctaactc 240
 acccttctga cagaaaatgc cagaaagttt ccacccatt gacaggcttg gagtcttgan 300
 taccatctgg gtgggtggag ctggcactgg cagaaacct ctccactgct atcctgacag 360
 anatggggca tgtncctccc agggccactt gccaacccan ggaggtttcc catcttgctg 420
 gtttggtgaa ggaagctgct ttcaaatttc aagtggacct gctggcctgn ataaggctna 480
 agggcctgcc tccaaaaagt ttctccnctt gttggcatta ccccngaant t 531

<210> 7753

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7753

atcagttgtc cacctttaat ttccaatact gtactttctt aacaagcata caaaatatca 60
 aacttctctt tagaaaaagt gccgttcttt gacatccttt acacaaaaac agtctgagcc 120
 tgtggcatgt taatgcagtt gagaggcaaa gcatacgaac tttacaaat tctaccttcc 180
 ataaaaagcc tcccgaag gagattacac gccactataa aaatatcaac ctcttgttgt 240
 agctgcatta ganaaccaag gcttgaagac tattttcata tagcatagaa aaaccactat 300
 ganagcatat taactgcatt ggtggcttgg gagtgtncctg tgccacagga ttatgcatag 360
 ctactgttag gtnccaagac tgttatacag ttttaattg attgtnactg agagcatnac 420
 agaagtacta ccagcccatg caaaaataact aaaaatactg aatcncgtg ctgaatactt 480
 cctcccggga anaaaaccaa agggcgccgt tacttaantc caaccaacn ggggaccaa 540
 ntccccccc caaaatt 557

<210> 7754

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7754

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actggtggat gtctgttttc tttattggta gtttggttta gaattgtgat gattacaatg   60
gactcgtgac tacacaagca gtaaaaagca gccagctgtg cttttacacc atggtttcac  120
acaaagcagc taaagaaata tcagaatgcc taattttcta tttataaaa gccctaaagg  180
catatggcag aagaatgctg gaaaaatcac tgtgggaaga atatgcataa ataaanaagt  240
atttcttacg tcaaaaaagt cccaagaaat cacaaaatct gcanaagctt ggттаатcaa  300
atactgcagt actgatttaa tcagtataaa atcnaaagag ctttagatct gtaataaaaa  360
tccaaatttg gggaaggga aactttaaaa cagcagccaa ttanaaaagg gttggggaaa  420
ggaaaagtaa ttgaacagcc cattggaact gtggggacat gtactgacca ctgtcaaacc  480
atgttanttt cttgggtccc ctggaaaacn tttatacccc tattttcctc cctccttctt  540
aantccacca tgtccaattn                                     560

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<210> 7755

<211> 258

<212> DNA

<213> Homo sapiens

<400> 7755

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acttaacatt atagtcattt tattgctcta ganagtttag tttctaaaac cattggatta   60
cttacatagt gacaataaga ctagccacat acacaaaatc aactgtatga ggctgcttct  120
ccagcttagt ggacaaatat tacaaaaata caaaaatagc tgattatagt taagctatcn  180
ngtataatat ttcatgtatt taccctaaga atatccccn tttatagata aggagatgaa  240
cangngtaaa actaatgt                                     258

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<210> 7756

<211> 295

<212> DNA

<213> Homo sapiens

<400> 7756

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gnngnggtat ncacttcagt aacttgaatc cacagatatn agcagtatat aaccagaaag   60
ttacaagtaa acacaaatta tacatgcaaa tttctgttca caaaggtcac atgtgcaggt  120
acatgaatta gaagcgtgca tctaggatta tggncaaact gttttaaaaa tgcagaaatg  180
ttaaattaca tcttgaaaat atgaaganat ggtctacaca cttcaaaaat caaatgttgc  240
ttatnccana natgtttgac aatcacggga ttcnagtgc aagcagtaag atctc       295

```

<210> 7757

<211> 217

<212> DNA

<213> Homo sapiens

<400> 7757

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gatnttttta ttttntcaa cactgttaaa aacatttatt ctgatacatt ctatcataag   60
ttagnacaag atccactctg ctacagatgc gtctgtgaan agcctngtgc catccaacta  120
gtgactgaat gatgtcccat ctcttatccg agncagagca cacatcttcc atgctgtccg  180
ctgattgnct ccaaatccan aanaccaa atnccctt       217

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<210> 7758

<211> 493

<212> DNA

<213> Homo sapiens

<400> 7758

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aagattatac gaagtgattt attgatactg gttacatcc attatataca ggtagaaact   60
ttcaaaattg tacaaagaac attaagcata ttgataaaga cagttttaca gacaaaacaa  120

```

ctggaaaata gttttaacat acacaatata taattatgaa aaaaatgtag aacacatatt 180
 gttctaccag ataaatccca aggttattaa aagtctgcta tgcagacctt aagttgaaaa 240
 atgtgttcaa tggagttaca tggttttaga aaattaagta taatgtnaaa attaagcttt 300
 tttttctcat tgcaattggg agaggaactg agacaacttt ttaccccnaa tctatacagt 360
 ttgaaaaata atttatatgt ctagcataaa gaaaattgag aatgtttatg gttctgtgaa 420
 cttgncctttt atgaaatgcn acccctccgt ttnaaaaatn agaaacctgt gcntccgaaa 480
 ccgaatgggc ccc 493

<210> 7759

<211> 385

<212> DNA

<213> Homo sapiens

<400> 7759

agggatttaa ctatctttat tttctgggta aaatttttaa aaaaagtggg gagagggtga 60
 gagtcntaag gggcaatagc aatagagatt acactgtgct gacacagana ctaaattcta 120
 gtcagantga anaccatata aaagggcggc tgatgggtta aaggaaataa ctacatggaa 180
 tctaatecga agacatccat gaagtttaca tctccattat taagccctna agtaatgtta 240
 agaaaaacaa ttctccaaca aaactgggag tccacagttg tcaagtatgc ttcttcaggc 300
 acggggtnng taaaantctg gagaaatggg ttctctccat gcccaatgac aancaagac 360
 ggtcctaagt ttgaggttaa naaca 385

<210> 7760

<211> 440

<212> DNA

<213> Homo sapiens

<400> 7760

acagtcatgt gtacaatttg ttacaaaacc atagaagact acaacttggt ttaaatacatt 60

tttggctctgc aaatatgtaa aatctgtgtg caattatcat gtatttacag ggtcttgtgt 120
tagtcatttt caatgattat tccaacaatg tcacactctc aacataagac atggcttaag 180
ataaatatat tagcaaataa atattctgag aacatatttc cataaatgaa atgtgctgct 240
atacatatac agaataatac taagttgtct tctagctttt aaaacatttt ttaaaaatgg 300
taatgttgga aaaagaccct tagaccattt tattacaaaa tctttacagc aaggtcttta 360
caaaatctct ttttaagtgt atgggaaaaa ttaaaaaatt ttaaaaataa tgnccctgtt 420
aganccnccc catanaaana 440

<210> 7761

<211> 481

<212> DNA

<213> Homo sapiens

<400> 7761

gcaaactcaa tctttattgc agctgaaata ctattttcgt taagtctcgg acacttagac 60
ccactgatcc tggtactctg cttgtctctg gtgtgcaggg aatcattttg ctggattaga 120
ggaaagggtgc cgccgtctgt ttccatgact tctttaaaaa ctgccttgaa atgaaattag 180
ttcatctgct tgcttccgtg tggcagcctc ctggcccgca gctgtgccag gcaccagtcc 240
taagangcat ctatagacta gtgcttatgt gggaccccaa gcctcggcac agctccatac 300
cacctatcct gagctgcctc ctgggggacc gtgctcttca gcttctacca gcaaggaagg 360
canatacggg tgcgtgcgtg gggcaaaaaa acacagcctt ctganttcan ggtctcccag 420
atcttcactg ggctctgaac ttctggghct gtggncacct gttinggccg cttctgctaa 480
g 481

<210> 7762

<211> 423

<212> DNA

<213> Homo sapiens

<400> 7762

```

ggtgatgaaa aaatgttttag tttattttaa attcctgttt agagtcaact ttattttactg 60
gctcctgtaa ccagtgaaac attctgaaat gtattagata atggttgtat gttttatata 120
tttcatatcg aatatagtaa gtgatttaat caattaacaa aagtcntta tttgtgaaca 180
atgagagaga ctgacactag ctttgtatgg ttttactttg gaaaatttta caaattttaa 240
gtaataaatg tattcatitt ctcactctgc agaagttcan ttttaaaaag aacattactg 300
ttctaaaatt tcacaacata caacatantc tgtgcttggt acatttccca atttgtctgt 360
gacagctnga tgttttgaaa aaaaaagaag gagaatggct gtnattggan aaaaaaacn 420
aaa 423

```

<210> 7763

<211> 500

<212> DNA

<213> Homo sapiens

<400> 7763

```

attgtatgat tgtgtttatg tgaaatgcc tgaagaggca aatccacaga cacacaggaa 60
gattancggt tgcccganga tgacngtggg ggaaggggaa ctgctattgg acatggggat 120
tctttttaag atgatggaaa tgctttgtaa gtanatagga gtgatagttg cacancactg 180
tgaanatact agaatccatt gaattgcaca cttgaatggg gtgaatgttg gctgggcaca 240
gtggctcaca tctgtaatcc taacactttg ggaggctgan gtggcangat cgcttgaacc 300
caggagtttg agaccagcct aagcaacata gccagaccct gtctctacaa aaaataaaaa 360
aaaacattan ctgggcgtgg tggcatgcac ctgtgggtccc agctactcan gangctgaag 420
cgcgangacc cttgagtcca ngaagtcgat gctacagtga actgtgatca tgccacctgc 480
attccactgg gggtgacant 500

```

<210> 7764

<211> 494

<212> DNA

<213> Homo sapiens

<400> 7764

```

aaccaaatgt tatttaatat cttaaaaagt aacacaatcc aaaatggata tttcacacaa 60
cactacataa acaacatgaa acacagtatc accataggga gggactttca aatatagact 120
tacaaaaatc cctgtccttt tttttctttt aagttattat actaagcatg acaagtaatc 180
atcatttaca gtatggtaca ctgacacgat aaaaacatg ttacaaatgt gctgttataa 240
atcagtaaca ttagggaaga catttcatga actgtaatta tttcatatga aatactatac 300
aatataaaca gaacatccat cttgggatga nctttacagc aaccagagac caagtaattt 360
aaaatttttt ttcagtgcga acacatttta ttccaagggc agtcctgggt gcaaaacccc 420
ttctaacatt cagtaaatec cncctgnccg tcttaatccc ttancccaat gcaatntccc 480
cttcccgtcc cncc 494

```

<210> 7765

<211> 493

<212> DNA

<213> Homo sapiens

<400> 7765

```

atntcattaa gatttaatag ttttttttgg actaagtant ggaaaaactt ttataacttaa 60
ctganacatn ttgtcaaggc taaaaaaaaag tcttgcaaaa tggggcagtg gactgacagg 120
ctgacatana aaataaactt tgcccaatca caacttgtgc ctcccatccc tggagtactg 180
actggcaccg gtaggacaga atctctttga atccattact ccatgcccc ttgaggcact 240
gttgaagaaa tctcactttt cagccanggt actggttctg gtacatatgg atcataantc 300
catttgggga agactcgttt atacaggttc atcagtactg tgtcttgaga ttttagcttc 360
ccatcaaagc tgcatttcat gtggncatgg gtacctaaag gttcentgat atgtcctctc 420
cgggcccact ccgtctcagt tccctgggnn taaaacacaa cacaccncct ctgttgaaaa 480
aaattttacn ttt 493

```

<210> 7766

<211> 309

<212> DNA

<213> Homo sapiens

<400> 7766

```

agtctgaaaa acataatctc tataatcatt taatitttct ttttggaaaa tgtatgtata   60
catacacaca gtttccataa aaaaacatag atagtaaagc tgattaaaat cttcctgtcc   120
tattggtacc agcacatgaa gcccttctac aaaattcctg acggactggg aataaaaatt   180
cctagtgaca gnccactcct tctcaggcag gtgtgattgt ttgaaatccc tcccnatatt   240
gaaatgaaac ctgnttcccn gtaacttccc tgtaattccg tgggtccctt gttncacag   300
aaaangcag                                     309
    
```

<210> 7767

<211> 499

<212> DNA

<213> Homo sapiens

<400> 7767

```

acagatgtga aaaaagttaa ttttctcctt gtcataattc cgattgtcat ttgactcaa   60
aattgttccg ggtattgttt tctttatcca taanaaatct catctaacac tgccatttgg   120
aaagggaaag aatatgtcac aataggggaa ggtacttcat caacatgatt gcacacattc   180
cattttctgt acataaccaa agtataatat ttagtgctaa taaacctatt ccagatcttg   240
ctaatagtan gaaatggaat tttaaaaaag gcttttaata caaaggaaaa acttttcctt   300
ttttaggtgt tgctgttagt ttatacggcc aaatcctctc atctgacata atcaggccta   360
aggcaattaa tggtaaaagc tgattaaagc aaaaaatcct ttgaaaaca atacatnaaa   420
aaatacttaa acttaaacia gaccttacia cattttgaac tccanctat ggtggcaaaa   480
cntgccggtc tanccgtna                                     499
    
```

<210> 7768

<211> 472

<212> DNA

<213> Homo sapiens

<400> 7768

```
gtttttttgc ctgtgttaag tcctgttgat gttaagtcct gttgagagca ccaggtaaac   60
actctgcacc ccttctctta gtagtaatag gtttttctact ccttggcctc agctgtcctc   120
acaggacagt gggggcagat cagagaacac atcagaaata catacaaaga aatcgtacaa   180
actggacagg ttccccctccc cctgccacaa ctggcatccc aacagaggga acaagtacta   240
aatcattttt gacgacgtaa ataagactga aaacaggtta aacagttgct gaacttaagg   300
gcatgacaaa aaggactcct ctctctgacc caggtaggca aaatgctttg ggtgtgaggt   360
aaaaaaaaatg ggtaaganca gctgtacana ntggggtgaa atgttaaaca ggggtgcaatg   420
cccaagggtt aaaaaccaag tccagcgcaa gcctnaaaca caggangcct cc           472
```

<210> 7769

<211> 301

<212> DNA

<213> Homo sapiens

<400> 7769

```
gggggtccgc attttcttaa ctcggtccca ccgctcactg gagaagcctc tctttccagg   60
cgtctcttca gttttctctc aagantgtta attccatctc gcttccctcg gcaacagtca   120
ttcttctcac tgctgggtct cactgggtgaa cttcggtcaa tctgctgaac aaggcttggc   180
tttgcaagta aagtctggta aagttcnga atttcaagna aggatacctg gaacaactgg   240
gcttccatca ataattcatt cacttctgga ctaacacatg gaggggatac nacttcctcc   300
a                                           301
```

<210> 7770

<211> 288

<212> DNA

<213> Homo sapiens

<400> 7770

```

gagaagaccg tgcttataat ttaagaaact gaaactacat ttttgcattt tagtaaaatc   60
tgagattgta cagtttttaa tctcatttcc acagacaccc agcaggcagc ctcttttctc  120
ttagaaaaat caaacatgca agccgtgaag tcaggaatag ctgaaccctt tggatnagca  180
cacnctttgg gcttctttta agcgagcctc tcatcaagag catttccttt gctggcatga  240
aggganggct gtgcctgcc a nggctagcac ctgggangga cgctnacb                    288
    
```

<210> 7771

<211> 324

<212> DNA

<213> Homo sapiens

<400> 7771

```

ggagttcatt caaaatttat tgagctgcaa ctgtgtgctc agcaatgaga atatagcagt   60
gagcaagatg tgaacaagat ctctgccctc gtgagcttac aatctagcag cgcagccagc  120
ctattacagc cataatttta caattgtaat aaaaactctg gaaaatgcat ggtgctaact  180
gatttatcan aaagtcttga cccaccaaga aatcagaaaa gacctccctg aggaaggaac  240
atttaggatc agctaggtgg aaagtgaan gaagantgtt gcaggcagan angacagtgt  300
gtgagggtct gaggcaanac atgt                                           324
    
```

<210> 7772

<211> 538

<212> DNA

<213> Homo sapiens

<400> 7772

aataattctc tatttattaa aaagggtcct acagctttac agccacagca ccggacacgg	60
ccctggacag cgaengcgaa ccggccaggg gccgctttgc aacttcaatg ccaagctcac	120
gtctggctgc gaccgtggca ggctgtggca tccccgacag cggccggtgg cggaagtatg	180
ggggcgggtg gcaccgctca ctcgagattc acagaacatg gcaagcccgc ctgactggca	240
tggcagtga tcntcctgta cagcttcatt tcaagaaaac agttacagta nanttcaagt	300
ccgagagcan gaatgtatgg tctactgagga caaaangcaa tggcctggcc cgtggcccaa	360
accccgttc agttctgcct tctgtcacc tggcggctaa gcacaagtcg gggccctgga	420
tccccacaag ttacaaggga agggcnggcc aaaaagtccc cttggttaac ncctccgcct	480
tttcentcac angttccact gcccctgct tgggcccctgg ggcctccacn cactttgc	538

<210> 7773

<211> 490

<212> DNA

<213> Homo sapiens

<400> 7773

ctggagtcac aatttcagaa agagtaaaga taaactttct tattaataaac tggttttagg	60
tccaaataat gaagatgtag aaaaacaacc tacagtccca ttataacatt ttgaaattca	120
tttataaaaa atttacagca gctgtaaagt ttcagtatcg taaggacaac gtgacacctac	180
aaacagccaa aggatgtaga caagatgttt ttctgtcttc caaataacac aaactgaaaa	240
gaaaagcctt tgcttttctt tggccacata aaactagtat ttccacacta ctggttaata	300
acccaagaa acctttgctt ctcttagtca atttgctcat tatggctaca agactacagc	360
tcaacatcac aagcccagaa aaaatgctgg taganatcca tcctgagcat tccccgaaaa	420
cccatcacia catttccagt gcttncctat ttggtccana nctatcntac cagtccttgg	480
ggcaaaatgc	490

<210> 7774

<211> 425

<212> DNA

<213> Homo sapiens

<400> 7774

```

accaagtgtg tatttcaatt tactgtatgc aatctaaca aaatttggtc ataatttacc 60
agatatacat aaatgattta agtagtaaaa gaaaattcag cttcaagaga gtaagttcat 120
atcttgagga aaagtaaaag tacattaaga atgtaaagcc aagtccagtt tctatgcaat 180
aagtgaactg tagtctaata aagcagattt aggtgatttt tagatatata tctttgttct 240
ttaatatata tttatatata gacagatcta ccaattgtaa actagtttat ttaaaggaag 300
gggataaatg ggatgaaaga aatctttata ctatacttnc atattcncaa agaacattta 360
cgtttaaaat acttttccat ccatagtatc ttinggccact aattcctnca aaaattcntt 420
ttacc 425

```

<210> 7775

<211> 478

<212> DNA

<213> Homo sapiens

<400> 7775

```

gatttgataa atgtttaata atttatcaag ctcagaaaat tttgggacaa agtaccattt 60
aaagataaag caaataagta cagctaaata ttgtagtagt gtataggtgt tacactgaag 120
cctgtgtata agcattaact atgtaccaat aaatgcaaag aaaataaact ttggttatag 180
cttatctaaa ttaatctcag aatttgacaa ttaaacadat gaatttgtaa taaacattct 240
gcattttttt aaaattcntc catatttgn acagtggcna aataatctaa aatcagaacg 300
ctttcctgaa gtatattatt ataattcccc acccctgaca gatgacaatt ttagaacanc 360
ccaaatcaat tctagtttat gccctaaaaa taaaatgtta ccagatagac aacnccat 420
aagtataagt tacccttcc aaatttnagt aantttattt tcccangtgg gaaaacca 478

```

<210> 7776

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7776

```
gtacacaaat gttcataaca gctttattta taacagcccc aaactggaaa caaccaggt 60
gtccatcgag aggtcaatga acaaatctat tcaatgaagc agtactcagc aatgaaaaac 120
ataaaaacaa aaactcgtga cacatgctac cacatggatg aatctcaaaa taactatact 180
gagtaaaata tgcctgacca aaaaagggat acatattgta tgattcaatt tacatagaat 240
tctaggacat gcaaactaat aacagggcac aagggcactt gggaatgatg ggtccgttcc 300
tcacttcagt tgtggtgata gttttacgca ggggtatacat acgccaacac attgtacact 360
tttgatacgt gcagtttatt ggggtgtcaag tacacctcct aaaataaaaa tattgatggg 420
ctctacattc tgganacacg ggcagtanaa ctattatttc cacttgaaat ttttacctac 480
cctttggtaa aaattctttt ggaacttttc tcncanccn cggcaaggaa aacaaaangt 540
ttaaac 546
```

<210> 7777

<211> 493

<212> DNA

<213> Homo sapiens

<400> 7777

```
aactttagaa tttcatttta ttaaataac ttttaaaaca agcacctctt ggcaataaaa 60
gcaaaaacaa aaaacaaaca aacaaaaacc caaccaaaaca atagtactcc ttccactcta 120
tgctaacgga agactttctca caccagccag ttaacaatg aaattcttaa acacgcagcc 180
tgctggggct gcatgcagag ctaaaatgca ggtgtgctga cttcttgag ctggagcaga 240
ggaaaacatc aaaaagcata tctggaatct atcacagctt tctttcttaa gcaaataaaa 300
atgcaaatta gtttcataac cacaattcaa tttatcaaac tttttctgaa gaatttncat 360
ttaattatgt tatacataac aggaaataaa acttttncac aaacactctc aaggnttacg 420
```

attatcaaga aaatgacaaa gttaaagcag gaggaatntt tgacncatgg gggggaagnc 480
aattccggtt ctg 493

<210> 7778

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7778

aatacatgac accaatggat attttattat agcttcttaa ttatttaaaa agaataacat 60
ttgttagtat acagttatta taaacagtta attgtttaca ttcattatit gtattcaaag 120
aatcctagcc gatctgaagg ctttcccata ctgcttacat tcatanagtt tctgccaagt 180
gtgagtgtt ccatgcattt gaagtcttga ggctgatctg acggctttcc cacattgtt 240
acattgatac ggtttctccc cagtgtgagt cctttcatga tattgaaaag aactggaaga 300
agtgaagct tttgccacat tacttacatt catagggitt ccttctggtg tgtctttaca 360
tgtctatgaa agcaattaag caagctgaaa tgctttccca caatccttac attcatacgg 420
attctctctc gtatgagtcc tttcatgtta tatgcaagga anaaaaataa ttgaatgtt 480
gtttggcatt ccttaacatt ccataggtn ctctcccgtg tttntttttg gcctgttttc 540
ccaaccaatc ttngggnaaa atnt 564

<210> 7779

<211> 447

<212> DNA

<213> Homo sapiens

<400> 7779

aaaacattaa ataattttat tcttttctca tttacagtag cccagtggta agcatgttag 60
aaaacctgaa gaaattttaa agtttttggt ttacaaaaag catgtataaa aatacctgtt 120
cagacaaaca aagatctgat cattacattg cccagcttta agaatgcaa aaataactaa 180

aatactgtca atcaaatgag agggctacat gggtttatta aagtttattt taacaatttt 240
 agctaagcag aatgtgctaa tgtaattcaa gttacagtta ctgccagata acataagaga 300
 aaacattgtg tgtggccact taagattatg cctcaaacag atactgtttc gtgcgcagaa 360
 cananttggg gaacacagct gggtttnagtt tcaatggtaa gcncataaaa gatcnagaaa 420
 atccccact tttctaataa ccgctat 447

<210> 7780

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7780

cccttttaaa aattaaaact ctttatttaa acctcttaac agcatcttat caatttggtg 60
 gcagcagcag aagcactacc aaagacagat attttgaaaa gcatttaca aaatacattg 120
 cacaaagtcc tatcttgcac ctttaaaaat aaattaatat tcaaaatatt tccaccccaa 180
 atcccaaate agttttatat aggaaatttt gatttatata tgtaacctgt aatatatgaa 240
 acatctgtac attttatctg ccttaactgc atagttccaa ttctaaggag agtgaaaaaa 300
 atgctgcttg atgtatgaat agtttcatac atcagtgtat ttgaggactg ttgtgcaata 360
 tacagaaaac cagtcagcac catcgttttg tctttttctg aaaacacaac atttacggta 420
 cactgaaaaa ctgtcttaac ccaacacaac ttaaataatt cttanggtaa aacatctgtt 480
 acactttaag tgcctggtna attctcattt ataaagtccg gcncngtaaa atatcctaata 540
 ttanttg 548

<210> 7781

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7781

aaggaaaaac acattttaata aatacaactt ggaaacgtct ttttctttaa attaggttca 60
 aatactggga gacaaacact gaaacaaaag tcttaacaac gcacttaca gccatcataa 120
 catgcagtga tcctgcgaga cactgtgtcc actcacagcc atgttaactg ggggccactc 180
 cctgctgccg taccatcata tgaatataca ttgttcagta aaaatgtgac aaaaatgtga 240
 tgtttttcca ggtttgtgtg ttttcataaa gttactcagg ttttagana atgaacatag 300
 gaacatgtag gatccacaat ttttaatgtc ctcaggttag ttgtattta caaaactcta 360
 agaaaataaa tgtgtgttat gtttggaaact gctgctttga atgcaatata tccaaataat 420
 gaagctgaac ataaccaana cgggaaaant tatccaaact ttcccaaaag cctatttggg 480
 aataccaccc cttggcttna aaaaaaana tggaattttt taaccatttc canaattaaa 540
 aaaaaaattt atnggaagna 560

<210> 7782

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7782

gctaaggtag atttattgtt acacatggtt agttttcata acataatccc ctgccccaga 60
 gcaactcagg actccatgga gcaggaagcc tgctcttggt catagctcat accacagcag 120
 gcaggtcacg ggggcatgct gtgctgcaa gtcctccaaa ggaagtcaca aaggtttgca 180
 tttgggacat ttaaattcac aaaatcagga gaaacaataa atgcacaagg gctgggtgcat 240
 atactttggt tacagtgcag ccaccacaca cggtcacgac tgtgcaaaaa tgctttcaaa 300
 tcattaaata aaaaagaact cacacaagct ataaaaatgt tgccacaaaa agctaaactt 360
 tcctctaaaa aatattaact gactttgact atnaactaac tccanatttg ctaaagtaca 420
 agtnttggtta ccataaatta attatttttg ttccataaat tacatcctat naatccttga 480
 aaaaccaact cacanggtc ttgaaaaaat gggactgtcc tccntcctgg ganattttaa 540
 ggaaattant tttgc 555

<210> 7783

<211> 506

<212> DNA

<213> Homo sapiens

<400> 7783

```
aatgtttcat tctgtattta aatttccttc aanaaagatt ccttgatcca gtagtaggga 60
actctgtttc tgtacagtta atgtgtaatt tttatccttc tggcaatatt acaaatactg 120
agtcatttaa tcttcattgt ttattctcca ggggtaattc ttgagttatc tcacatgatg 180
taagtacat ctttgcagta tttcatggat tccatttggt ttgtcatagc cagaacatca 240
tgaaatccag tacttaggcc anacatatgt tgaaagtatg cctccttttc cacttgaatt 300
gttaaattgt ttactccagc atctttaagt attcctgtaa cctgctgtac tattctttgt 360
tctagcacat caaatgtcac ctgtatatga attgttccng ccacaatact ancanaatga 420
ccccaaaatg aaggtctcgg tatganatta accctccaat tttccgtttc tttccaaagc 480
aaatgttatc cttttccana tccngg 506
```

<210> 7784

<211> 279

<212> DNA

<213> Homo sapiens

<400> 7784

```
ggcttgtttg atgcttttaa tatcattatt tgtgttacac gatacacaac caangatgat 60
ggtcaatact gcaatgaaaa tgttaaaaaa aatattatac acgntcatg tcttccacac 120
accttcctgg gaaataaatt agtgagcacg gagaaactgg gctgggtggc ggccacagct 180
ganagaggag ggagtgttaa ggcagtatct acaangggaa nggtggcagg agggcaagct 240
aaggcctana ttcttccctc caacctccca nacaggga 279
```

<210> 7785

<211> 244

<212> DNA

<213> Homo sapiens

<400> 7785

```
catgattggt ntaaagtttg attgtnaact ttgctgttgg atacaaaatg aaggcataca 60
actgtcacag gcagggcant aagtacaaag tctaagctgt aanaaccgtt tgaaaatana 120
anctcgtttt tggaatacat gtgtcaaagg ctgcccatgt taataccttt gggmataaaa 180
cggtaacgat nccctgtgac aaaccntcc atcacctgac gcacattcnc atctcctggt 240
nact 244
```

<210> 7786

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7786

```
agttatacag gttttaattc cagacaacag aatagtggct attaacaata aaatcagtaa 60
gtattctgga catgtttaac ttgaatattc aggtagggga ttttattgga aataaggatc 120
tagagctagt ggaagaagtt atatttagga ntcattcaca aagaggcttg agaaacaaat 180
gaaaatgtat tgagaagtgc atanagaaca atgttaaggg ggctgtgggg aaaaaacaac 240
atttgaaga taactgaagg aaatcatana ggaaaaatag tacaatctaa tttctctccc 300
taactgaaag caaaaccact ttttaacta agaatttatt atgatctctc catgatacta 360
ccattttttc aatcccaaca atcatcatca catccagag ccatctcatg acaanantt 420
ctaaatatta attgcctgaa cactgaagaa aattatttct gatctaaggt gttacttatt 480
ctctttatta aaaaaaaggg ggccagnccc ggtnttcctg cctgttttcc cacccttttn 540
ggaagccaag ttngtt 556
```

<210> 7787

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7787

```
ccacactttt tggtttactc ctacttgagt taagaacact aacaataaaa tttgcatgca 60
atgaatatgg ttctctaaat acaacagatg aattatttta catacacatc ttatttttat 120
ttatgganaa tcggttaata aacacatttt aaattcaata tattatgtat ttatgagcgg 180
gaagcaacct taaacatttt aaactccaga aatatacaaa acaattataa gtgaaataat 240
acaaagtccc ttgtgttttg atcctggagt caaaccatag aaatctcagg ttattaagag 300
aactttgaaa aatattgttt agaatattaa aaatcatgtg tttgggggan gggagggaat 360
taacagcctt tctttgcctt aaaatacttt acgttttatg aaattgcaat tggaatgaag 420
cagctcctaa agtagtcagt gttcagagga agagaaaatt gagcacaaga nccaactacc 480
attttactca gtccanncaa tgcttaactg aanaactcac ttaaaaaact gttnaaggtc 540
```

<210> 7788

<211> 450

<212> DNA

<213> Homo sapiens

<400> 7788

```
acaaaaacct ctttgagtcc tttattaacg tctggagatg tgtggtacat acaattaaca 60
gcatcacacc agctacagaa gtacagataa ccaagaatgt ncttcagaac aaggatctga 120
gagcaactta tgggtgttgc tgctctgaac ctccacaaaa acccagttct gacacacgca 180
agacagacga tataacaatt tcncttgga atggtttttt ttaaaaaatg acaagaacta 240
atagttcaaa ccctttagan tgtgagatgt ggcagctcgc ttggtgccgt ggcactgctg 300
gtaaaaagcc aacatgggca tttgaaggtc aggcacaaag aaccaatggg gtgggggtgga 360
aaaagtttta ttncactgt ncaaanatac agatgggtccg agtggatact tccgtccagg 420
ctcatntggg gctgcangaa tcccctaaat 450
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<210> 7789

<211> 533

<212> DNA

<213> Homo sapiens

<400> 7789

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attatataaa cttaaccttt taatactggt nattttnagc ccattgttta aaaaataaaa 60
gttaaaaaaa ttttaactgct taaaagtaaa gttttgccat tgnttgaga aacttttttt 120
tccttctctg cgctgccagn tgtaacactt cttctggatt gctggcattc aactctgtct 180
ggccgatgga tttgattgca atttgtcttt tatctgttac tcctctttta tgatgaagat 240
aagtcaagta ttccaaaatg gtaacatccc atatgtagtc gtagtaggag tccatagcat 300
catgactgtt ttgttcttgc aaagatttaa acgctgtttt gtagtcaatt tctctgagga 360
actgacataa aatagccacc tgtgtgtggc aattcagcaa agaacaacat gttatcattc 420
gtattattac ctggctctgta taaacatcaa ggggcacagc cttgttaaag aagtcagaac 480
acacagctcc tggctggaag taatatnaaa aantgntgaa tactgaatcc ttg 533
```

<210> 7790

<211> 486

<212> DNA

<213> Homo sapiens

<400> 7790

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cagtttacta aatcaacatc ttatatctct atactaaaca ctagccacta cttgagggtt 60
attactgttg tgattatggt tataaaacag ggacatcttg cataccccta atggtgtgaa 120
taaaatcaac tgtgtcagta cctttgagca cttcataact taaaattcta aaaaattgag 180
atttggacct acagtttgct atttaacana ccaagtctgg tcttganant aaaaccccat 240
caaaaactgg attaaaaaac ctcatccagg cagctngctg tgacaaaact taaatcctgt 300
cgtacgttgc ctgggattcc ctcaaggtct tttnccattc tccgaggaaa taatgacttg 360
cttcagtccc gctctgtgtg ccgccagcac tttgtcttta attccccac tggaanaana 420
```

anaacnctca gtgttatattc tccagtcattg ggtacatctg aacgttccac ccnccccctaa 480
aaattg 486

<210> 7791

<211> 498

<212> DNA

<213> Homo sapiens

<400> 7791

gaatcgttgc gattaacttt attaatattt taaaatatga aaactgtaaa acatagtatt 60
tatgtaaaca cctgaggact gttcaagtgg gtacagcatc tncatacaaa caacttgaaa 120
gaagaccaag ttttaagtaag aatcttatga catgtaagga ataacataaa tgaagctatt 180
ctttaaataag ttgcattcat gtctaaagta catttggttt tctaaaaaga aaatgtacat 240
tcttgccctt ggtgaatatt ttattggcat ttacaacaaa tggctaatac ttttataact 300
gattctcata gcttataaac attacatcaa agttacacaa agtaataaca ataaacatat 360
agcaccattt cctcttcaaa gttctaactt ataaaataaa gcccacaaaca tggctggggc 420
atggggggct catgcctgta atcccagcat ttgcaaggg ccaaggtggg gnggatcncc 480
tgaagncnag aatttnga 498

<210> 7792

<211> 475

<212> DNA

<213> Homo sapiens

<400> 7792

gttttttaag aaaaaccaat cgctttattt ntctcaata tatgtttaga aaactgggtct 60
gagaanaggt ttcatganat agaccagagg actatgtaca aaatcaagag ttctaaacca 120
ataataaaaa gggcacaaatg aagcacacat ccccaggggc cacggnagcc taggaccttc 180
ctatcagtgg ggaggcaagg tctttgacgg cttttgagtt cagctgaggg atcatgctga 240

tcttcangag tttgctgctt gcatacttat tcttgatggc gatgaattta gtttaagtttt 300
catttacttt caccacattc ttggccatgt gctgcatgac ttccaatact tcattctctg 360
tgtatcctgt gtaatactgc tgctttaagt tccattttcc ttgtcctana acttctgana 420
caagcaggaa gcagctgctg ctacctttta aggatgataa tgcncatat catnt 475

<210> 7793

<211> 510

<212> DNA

<213> Homo sapiens

<400> 7793

gagtggagcc ttgctctgtc gccaggctgg agtgcagtgg tggaacttgg ctcaactgcaa 60
tctccgcctc ctgggtttta gcgattcccc tgcctcagcc tccagagtag ctgggactac 120
aggtgtgcgc caccatgccc agctaatttt ttgtatttta gtanagacgg ggtttcacca 180
tgttggccag gagggctctca atctcctgcc ctcatgatct gcccgcttg gcctcccaaa 240
gccccctttt taattttttt ttgtagagac nangtctcgc tatgttgccc aggctagtct 300
cgaactcctg ggctgcagcg atccttctgc ctgggcctcc caaagtgctg ggattaccag 360
tgaacctcca taccagccc aaatatgcat tcttggaatt atctgcaatt gcccaanaat 420
gtacaagcaa ctctgagaa taaaccanaa aagataagaa actccatgaa naaaatgggc 480
aatgcncagg aaaggaaacc aaaaagntaa 510

<210> 7794

<211> 512

<212> DNA

<213> Homo sapiens

<400> 7794

gtttaaaaa atattttaat aagcatattc agaatggcag acaagggaat gggagaaggg 60
aattatttta cagtgcacaa ttactatgca taaatttaac atctaatttg aaattttaaa 120

tgcctattta aatattactt caaatacatt ttaaagctca acaaacttgt gttgaactga 180
 attgcagatc ctgaactcta tttgaaaata catcatgaaa cagaaaatac ccattccaaa 240
 tgaaaatgat agtgctttgt tgggggtggg aatgangcgg ggagactaaa tcactattaa 300
 cagacttctt ttcccaatgc aatttgtcaa aagttccaaa gttctgaaat gtactaaatc 360
 ttaagcaaat taaattcatg atattactaa aactttttta atagtgcatt gacttatcaa 420
 gttatagtgg ctgcttaaga acaaattntt gtgttgaaat acctgcntaa accacaaaat 480
 tccttnaaat nttcctttac aanaagctga ac 512

<210> 7795

<211> 537

<212> DNA

<213> Homo sapiens

<400> 7795

ctggtttaaa tagtatctat actgataaca atagcaacaa tcaataacaa agtattaagc 60
 tttgacaaca ctatgtatgt tattgtatta aatcctcctg tcacccgcct tgagctgggt 120
 gttctctctt ttgatagctg anaaagctga ggctgagggc gatgaaattc acatggccag 180
 tgggagccag gatggactca gggtgcccat gagaccatgc cgtcattcag gctacactgt 240
 tctgaactca cgtgaccaag atgtgacaga ggctggattc cacgtccctg gcacactcca 300
 aganggattc aaggttaaaa tacaacttga tacttttaaat ggagaaactc cccacagtat 360
 gtttggtacc atctgaattc aangtcacat tttccagtct tgccctgggt ttgaaatcta 420
 ttggtttatt tcaatacatc acccctgtgg aaaaaacttg tctcaccaaa tntacntttt 480
 cctggcccgt tttcctgggc nccncttcca gggttaacttt ggaaaaccct gaaggnt 537

<210> 7796

<211> 579

<212> DNA

<213> Homo sapiens

<400> 7796

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agtagaagat tcttttattt taaaaaaaaat tacacgtggt tctacaataa tttttccttt 60
taaaaagctt caagatatac agggagatgc actagtccea gaaatccagc ttgtccttta 120
acaaattata cagtttaact ttcttcacat attgccacaa tagttaattc acagtataat 180
cttatttgta tttggaaaag aanaaataaa tatacaataa ttgaaatagg ttcaagaatc 240
aagctcgatt tgtttccaag acttggaaga acttcttttg tactgttcca gttccagatc 300
cttctgaatt ctcatctcat cgacttcatt ttcagcatac tgaggatctc tcgcagggtc 360
cttgatatct ttcagcgtgt taatactctt tgggtggaaag agcttttcat acactttttt 420
ccacaactcc ataggtgagt gggcatgaac tttccaatgt cattttcagg aacaggaaga 480
natectattt gaccgaaaga atccatcccg ctgtgataaa cancngtttt tccgatcccc 540
cntttgaatt gcttttggtc atgccaatgn cacttggtg 579

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<210> 7797

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7797

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cagatctgta agtttatttg ctcaatgtnc gacagctaca taatgactca cattcntgat 60
attccatcac tgaggaaact gctaaagatg gtccgtgtgt gaaataattc cttanagaaa 120
cacggagctg gaaaaataat cactgattag accttaaaaa tagttcactg cataacatga 180
caaaaagcac aaaggctcat tcagagaaca tatttgttgt tctccaacac tgtaatagtt 240
ataatttcac catgacaaac accagacatt nagattaagc taacactggt gtttcttttg 300
ctccccccct tttaaaaaca aaatatataa ctgcatgtcn ctatagcaac atccaaaaca 360
gatcaatttg ttncaatcac tatttggtag agcaaacttt accccnaaa gganaaatta 420
aattnaaaaa aaaaaacctt taaaaaattg aaaacttaat tttttttgt cctaggaata 480
cettaccct ccggtttaat ttatccattt ccancecctg ttttaaaatn ccccttgcc 540
tgccccattt tgnttcctt aaattntggg ggant 575

```

<210> 7798

<211> 516

<212> DNA

<213> Homo sapiens

<400> 7798

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agatgctgca taatagttta ttaacaaagc tcaaagttta cagaaataac attaaatgca   60
acactttttg attattaaca catgtacaat tttacactgc aaaacaattg caactaaaag  120
tttaggaggt aaagaattag cacacttgga agtctgtata catttaatac aaatttgcaa  180
gatatcagaa tgatctctcc tgaaaattca actttccttg tgtatatata tgcaaagaga  240
tacctatatt ttaaaaaaga gagctacctg tatgtcatgc atcccatcca aaacatgtca  300
caatatttta tatatattac atagtattta caacaaagcc ccttccatag tatttacaat  360
aaagctcctt ccaaaatcac caanganctt ctttccagaa tagcaagtgc tttcaagtta  420
ctgtaccaag tattctcact aatacagtan tgtatctaaa tgggggaagg tggggggant  480
ncantgccta atattagtta ctgaatttcc anatta                               516

```

<210> 7799

<211> 257

<212> DNA

<213> Homo sapiens

<400> 7799

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attttgcctt ttgtaacatt gttttatctg gttttccata tcaaaagtct gtaaactttg   60
cattaacact ataatctaca atagtagctt tataagcatt tgaaatagaa tgaaatagta  120
attcnagtct gatattactg gggtgttcca cacatagtta aataagatcg atccttccaa  180
aaatctaagg gtaggctagt tgtggtgatt catgcctgta atcccagcac tttgggaagn  240
ccaagnnggn tgantcc                                                    257

```

<210> 7800

<211> 601

<212> DNA

<213> Homo sapiens

<400> 7800

```

ctgaaagtgt ctgatttatt ttcaaaataa attatatctt gattcctttc aggttcatgt   60
ggcaccggtc aggctgcctc aaatgctatc acgattcaag gtttgggggtg agtttccatg  120
atcagtgtcc tcgtccagca ttagagaatt gtgcctcctc catctagagg tctgcaganc  180
cacacagtct gcaggacaag cagggacact gcccangtct ccccgggcca cctactccan  240
ggctgggtctg aaaaaacctg aagggcaagg gcttccgtcc ctctgggctg aaaatctaag  300
ggtgcagtgc tggtttgctt cctgggctcc aaccccgga ntaggtgang ctcgttaaga  360
atgcctcct gagcgtctct tctgaacttg ctgtctgcca tcttcccacc accccatccc  420
gcttggcctg ggaacgggaa gantccattg tggccttgnn cggctcccn caatgctaag  480
ncctcaactg gtgttcgttc tgtaatnaa acccttgcct gctgtctccc actctccgtg  540
ctccccaagg gcaaggctct tctgnccnc ttcttttccc atgcattcat gggccaaaac  600
n                                                                           601

```

<210> 7801

<211> 252

<212> DNA

<213> Homo sapiens

<400> 7801

```

gacggagttt ggctctgtca ctccagctgg agtgcagtgg cgtgatcttg gctcactaca   60
agttccgact gcctggttca agcgattctc ctgcctcagc ctcccaggta gctggaacta  120
caggcacgca ccaccagcc cagctaattt ttgtattttt agtaaanatg angtttcacc  180
atgttggcca ggatggtctc catctcctga actcatgac caccntccc nggcccccca  240
aantttggga at                                                                           252

```

<210> 7802

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7802

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ccttctcctc ttttttggtc aatagctggc aacaatgtga acaatgcatt aaagtacttt 60
ttaaaacaat gcaatttact cggaaattct aatatctcca cttttctttg agaataatca 120
actttgaaat aagatccatc ataaatgtta gcctattaga gaaaagatgc tgtaaataat 180
cagttttacc tcaaaatcat gctcaatatt tttttttcct gaaagaaaat tgcccaattt 240
tgcttgactt gaaataatta aattaggaga aaaccaaggg tctattagta tataatcttat 300
cttttatgaa atgacttaat aaaaataatg tatacgttaa aaacaacaac cgaaaatact 360
ctacatataa taagagaaca ctaggaagaa aaaaatacca cgtgtacttt atttttagagt 420
aatgaacttt aaagctaaaa aagccataga atatcctnct atgttaaccc caaatgttgg 480
tcttgtccta ngctctccac cancgaaata cttgcgataa aattttagtn ccnttggggt 540
aacctttccc gttttt 556
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<210> 7803

<211> 237

<212> DNA

<213> Homo sapiens

<400> 7803

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gnnnattttt taaaccatca tttacttttt ctttactttt ttttgcaaag atagttgtgc 60
tgccaagcaa cttgaggtta aggcatataa agggtttagac tacaanaaat gaaaacaana 120
caattgcat acttctata ggagacgcac aaaaagcagt tggctggttt catattgcat 180
aatgatgctg tgttccttga tgaaataaac aatcttcnt gtgttnacat naggann 237
```

<210> 7804

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7804

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aatttnaata catttatatt tgtgtgattc ttaataaaaac actttcaaaa cattctgtac   60
atttcaagcc actcagaanc gcattacatt tctacaaatg tgntttgttg ggatgagggtg  120
ccaagatgtc tctgtacaaa gatgtacaat atgtacaatc actgtaagtg caagctgtgc   180
aaagcagant ctagaacact aattcatgcc aaggcttaca aaaacatttc aacacataag  240
actaaagctt gaaacagcgt tgtggttttt tccctgggca aatgattatt ttataaacia  300
gtatatgtat atgtcataca gaaagaaaaa ttggactcct cagctcagtc agtaccatgc  360
agctgactgg atacattaca nggctgctct cctangcctc tttcttcaag gcgccatttt  420
gccacactca acagttgtct catcactgag tggctgccac tgctgccttt ggntgaacca  480
cagcaacnct aggaaactta antnccggga aataaaggca aattggtttc ccatgccgca  540
acttgntg                                     548

```

<210> 7805

<211> 335

<212> DNA

<213> Homo sapiens

<400> 7805

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catttnttaa aattttatta ctgtttacca atggggagat gcagtttatt tacaccagca   60
gccatagggg aaaggggaat acanttaatc agctatctgt ataggatgga ctacttatgc  120
naaaataaaa atctccaaaa caaangacag tgggtgagctt cactaccctc ccccgatgat  180
cccagcatgc gataatgcca ngcantggtc cctgggcatg cgatgggtggg aactaatgtn  240
tggaanaaaa agccacaaaac cacagaaatt ttaaagaacc ccccccttc cccataacac  300
acacattcca cacacacnct ctcnattct ttata                                     335

```

<210> 7806

<211> 108

<212> DNA

<213> Homo sapiens

<400> 7806

cctggaactg catccattga acatttattt gtcaaaggcc tggctctgtgc caggcagcat 60
gtggaggcac tgaatggggg gtggaggggg ttgtncngng ggaatcaa 108

<210> 7807

<211> 312

<212> DNA

<213> Homo sapiens

<400> 7807

gggccttcca atattatgag gttatittga ggatccaggg aggtaacgga tgtgaaaaac 60
gtgtggtgaa ctgtaaataa tgactatcac atttagttct cccacaatcc agtgaggant 120
aatcacttac tcgaggtcac ccagcgctgg caactgctgg agctgggatt tgaaccanc 180
tagcagtgtc catgctacaa aaatggggcc agccttggca caggangttg attgctgcag 240
ccagtgtttc tanaattcca aatatgaagt ggtctcatgt tctccttggg angaagccct 300
tggtttcccc aa 312

<210> 7808

<211> 478

<212> DNA

<213> Homo sapiens

<400> 7808

gatcaataaa tcaatttatt taaaagaata tgttacaatt aattacacta agtgacatta 60

ccaaacaatt ttagagtggg tagctctaga acaaggaatg aaagaaacaa tgtagccat 120
 tattgtgtct gtgtatttnc tcttcacatt tcttanatca caaataaaaa aatacaagat 180
 actgcagtga aaatacaatt agagtttctc tgaaataaat taaatgtgca tggcctggga 240
 aaaactgaan cccanctcac tggcttaaaa gggggatcatg atataaaatt aatgtccaag 300
 ttagcaggc ggccaagtgc cccaccccg taccactccc ctctttgatt ctattcctta 360
 ccacagccct gaccttccca cataccctan attattgctg angantgagc tgatgctgtc 420
 ctggcaacaa aaaagcctgn cgtgatntgc tcaggtttag gggaacagga attcaaaa 478

<210> 7809

<211> 269

<212> DNA

<213> Homo sapiens

<400> 7809

ccagtgtat tatatatitc aaacattact tgtttgata ataacaaac actgagacag 60
 caggcatcag antgcatga agtacaacac aactcccact tccatgcttg aanagctttg 120
 tgagagctgt gcctgttgag gcaggggacg tgtactgtgg actccaggaa tgacacaatg 180
 ttagccggca gacacctcaa agttcctctg atcccnacaa actgggaaat ggggtgggtg 240
 antggaanga gctttctcaa natcaacna 269

<210> 7810

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7810

cacagtggac aggaaaattt tactactgaa tactggaaaa taaatcaagg atacctctta 60
 atatcttgat ctcttaagc tggcaanact ggaatacaag ttttaatgaa tagcagcaca 120
 aaatcacttg caactcttac attctggcat tgggtaccac ataagtaaag ttcatcattt 180

tgatgggtcaa aggagcctcg attctattcc tctttcaaag ctgaacccaa tggactcctg 240
 tgggaaatag tattgtctct cgttcgggtca tgcttaatgt aaacaactcc atagcacaaa 300
 aagatgcaat gggcacctaa acaaatccta gtgggtacag aacacacaca cacacacnca 360
 cacncacaca cacncacgca cacacacaac aagtttggtg gtggcatgaa aaanatgcc 420
 cncatgaaaa aaaaatgcta cacttgggtc aaaaatgaat ttaaccaac tgcttggtaa 480
 tctacaattc cattctttga aaatttanca ncttttttg aaatttggtg caaaagcaag 540
 gtnatcttcc tnttaaatnt tc 562

<210> 7811

<211> 533

<212> DNA

<213> Homo sapiens

<400> 7811

aactattcaa aaacatgtat ttatttagaa caatagaaat acgtgttctc agactgtcct 60
 ctanagtttt tgagactatt agttcaagag tticaaagta tattacttgt aaaaacaata 120
 ctgattaaaa aaattttttt taacaaaaaa acagaaatct gatttgatgg taccttgaaa 180
 ataccctaaa taccaaattt tctccaacct aacattacag ctaatttaag aattcctcct 240
 tcattggtaa aacatttttt cctcattaaa tgtgggtact gaaattggat agaaacacta 300
 tgaatgtgaa aataccacca attttctgca gtaaaaaaaaa aaacccaaa aaacaaaaaa 360
 acnaacaaaa aacctagaat gttctttgga atcactgaaa tatcacaac ttgggttttt 420
 tcttacagtc tgtgcacctn ctncagggtt ctctgtttng cttgtattac tgaacgggtg 480
 gatcctaatt ttatanatcc agtcttgcac ncaatatact gctggacacc cgg 533

<210> 7812

<211> 495

<212> DNA

<213> Homo sapiens

<400> 7812

aattntntaaa agttttgttt tgtttaatga aacacagtat aagaaactag aaaatattac	60
agagaactat gcatactgat gctaagtict gttttatttc atatacatgt ccattttata	120
tcacaaacca gtaaaaacat acaaattgat aaatgtataa acacattgca cataggtgta	180
tacatgtggt atgttgggtc ataatgtata ttgggtcata atgtaagctc ttccaggaaa	240
gcttcctggt cccatcatatc tcccaacctc caaanataat gaagcattct ctcactgtct	300
aggactgaac catgttaatg cttctatcat tgctttaatt ctgtatttgt gcttcctaca	360
agaccataaa cttctaacac tgtactaggc atttttccta ctacttgata tgtacgatct	420
catttaattc tcacaactcc tgttttcgg ggtgggtttn gggttnaaat ttgccttggt	480
gaacanctgg aatnn	495

<210> 7813

<211> 510

<212> DNA

<213> Homo sapiens

<400> 7813

catctcactt tttccagatt tttttttat tcagtacaga tgcaaagtag tagctcanag	60
gctctgggta atagcattcc tganattgat gacatccatt acctcactag tccaacttct	120
ccagactaac gcanactttt ctcttcctt ggcctttcct ctctcgcca ttgggccaat	180
tccttcgatt tctcatttcc ctgaagtta gggccattca cagtttcatg gtcaaagcca	240
gttccagggt caatagtctg tgatttatcc aggctctgag gtatgcaccg cttctgtttt	300
gctcgttctt ccaanagcta gtttggccan aaaggggatg ctttatacca tanaacacat	360
ccaccttcta gaactgctct aaaaggncag gccctcanat tccacatggt tgganttctg	420
gccaatctg ganctttctt cacactcggc tctcaaaact ctngggttca aaaaaaatt	480
aacatggtga naaaaaana ttttctaaac	510

<210> 7814

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7814

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catatttgat tttttattac caatcaaaaa taaattccat atatcgttta gcaaatatca 60
ttgttttggtg acaaaagaca caagagtcac aacaacaaaa ctccccgana gtcaaaactca 120
taacgccaaa ataaatcaca aaaatataca aattaaaata ttatgcaaaa taaatacggc 180
ggctgtcacc tgcctaccca tttggatgcc ctttgcaaag gtctccctta cgtggaaaac 240
acagtgggtg ggccagtacc agggatatggc tcatcccagg aaccagaggt tgaaatagga 300
agggaaaaat tgcactggga agaggaagtc atcanacaaa caatatttgg aaataatgat 360
gaccctctgt gagaagggat gatcaatggg ccacgggaaa aagangaagg ccaccantt 420
ggtggttaacc gtgtgcaaaa agtcactgtg gaagtntttt cacctgcccc ttgtcttcnc 480
ataccccccc caatgttctt ttgtctacc tggccatcca gggctgtcag gaatattact 540
cctgccnct tcccaaaaag gaanttggga aaacaantcg cncn 585

```

<210> 7815

<211> 578

<212> DNA

<213> Homo sapiens

<400> 7815

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gtttttttga attccagaac ttctttattg tacataaaaa tctgaatttc ttaatatgga 60
aaccaaaggt ctgcaaaatg tactctccta gtcaggatc attatttatt cctcttattt 120
ttggaatcta ttcttctttt attcaaggac caactcaaag gtcagctttt agttaactct 180
tatatcccca tacacatata ctaaaggcan anttaactgc tatatccaag ctacttcttg 240
gcatatcctt gtcacctaaa ataacagaan agggagactc tctgaaaaga aaaatgatgt 300
tttattcagg aagtaggcat tgcaatnaga aatacaagtg ccacagttaa actatgtgca 360
tatacaggga agtcaaggaa gacaacggtt tttaaagcaa aaatgattgt ttgaaaaaa 420
attatccttg gctacaagga tcataacaag gatgttgcca nttggacatt ggacaggga 480

```

ttgctgggca aattttcncn taaaaatfff tttgtttttt ttcaggtngt gaaggccttg 540
ttcaaggfff ggtttggtca anctttaatg aaancccc 578

<210> 7816

<211> 308

<212> DNA

<213> Homo sapiens

<400> 7816

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tctaaaaaaaa agtaccaggt acaatttttt cctgtttttg atttgctttg ttttttcaag 120
tttcagcaaa tgcttggtcc cctcagccca gccccaggaa ttaggactga ggctgggtca 180
gantctggan tggggaatgg ggtagtttg aaccacatga ctgagtttga ggggtgcccc 240
tcaccccanc tgaggtaggt gggtcagaat ctggccnggt gagangangc nccccactgc 300
ttggccct 308

<210> 7817

<211> 211

<212> DNA

<213> Homo sapiens

<400> 7817

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atgcatactc aactgtaag tgcctgattt gatttgcana ngatatagaa ccttatcaga 120
aaacaacctt ccaaggnaan aacaaatgca tcttatctta gcacagcttt tctccaattc 180
ttctttacct aagganatga atnnctgcca g 211

<210> 7818

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7818

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aaaaacagaa ctgtgcaatg agaatgcttt aatcatcacc cacacagacg agcggaagct   60
acagacagag aaccactacg gatgggtgcct ggaacanagg tgagaatggc ccaaaactct   120
gcctccggga aaggtgccaa gtttacagga cttatcgtgg tgccctcacc agaccctcc   180
tcctcctcct cctcncctc ctcctcctcc tccgtggccg ctggcggctc ctgcatctcc   240
tctggggaag cctgangccg gctcgggtaa cttctgctgc ctgagacagt cacacgtgct   300
tgggacctct cacctgaggt ctctgggtgc tgaactggan tggangtact aggcgtggga   360
aaaaaatgtg gtcacctgtt gtcattctt tcaaagtcct taaggcagta cacttcgtcc   420
aggtcaacat ccancgtccg gaaacccttg gtgaccacac caangcngg gggttcaggat   480
nccccaaggt gaggttgggc cacttgctgc cantggtgaa atttggcaaa aacttcccac   540
cggttnccca at                                                    552

```

<210> 7819

<211> 352

<212> DNA

<213> Homo sapiens

<400> 7819

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agtcataatt cttttttatt gctcttttaa aacaacagct tggctgagcc gcggatgcca   60
tgaacagttc agggcctcgg cgtcatttta tctcctcctt attcctttcc tttctagcat   120
aagagccctg aaagaggcgt tttgagccaa nagaaccgct tgtaggcgat ctttttaagc   180
gtaaccaagc tcgcctttca cccagtctcc caaggcgttg aaagagacca gctccagtct   240
tggggcgctg acctacttgc ctananggcc aaggatctcc tactcggtgg aacggccccc   300
aaaatttctt gggggaaggg ttttggggaa anaactganc tacanaacct aa           352

```

<210> 7820

<211> 581

<212> DNA

<213> Homo sapiens

<400> 7820

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aagcattttc caccatttac tcttggtatc aaaaatagtt caactcttct tgcaaaacaa   60
aaacaaaata gtacatactg gacacatcac atttttcttc ctatggcttt agcccacccc  120
caccaccacca aaagagacca aaaaaaaaaa agaaaaaaaaa gcccaacaac aacaacaaaa  180
acaactctac ctgaccacat tcacagaaaa tgacaccagg atacactaca aaacagaagg  240
aggtgtcatc tgctctgtgt ccaaagggtt cttctccatg tcttgacta ggcgagtaac  300
catcattgaa catgctgtgt gccaaatcaa aacataactt cagcatatgt cagatcttac  360
tagagatggg gaacgtanta naaattggaa attttccagc agtatcttc tttaaataag  420
cactgtcaaa gctgcagctc ttcttttaaa tcacaggtta tttcattaca cctaagtcag  480
tccttgtttt atttgggctg gtgctcttcc cagccactga atanaattcc cctcnacaaa  540
atgtttggga aacncttgct ttcccctan aaaattaccg g                               581

```

<210> 7821

<211> 400

<212> DNA

<213> Homo sapiens

<400> 7821

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ctgaggattt cctgtattta ttaagttaca agttggtagg cacagcttga gcaacatana   60
aaagtaatct tcttgagtta tacaatcatt taaattccaa agcactcaca aaattgagca  120
aacaagcca ctatttgcatt atttgggaaa ggaacatat tgctaattga agccacagga  180
ctggtcaaaa ataatgttt tgtattaagt antaaaataa atggagaatt ctaccccaaa  240
gcctccacct cagtgaanac ctgcgggtta ttgcagctgc aagggaagct acagcacagt  300
cgtctcanaa taaacagcag cctggaaagc anatgttttc ncaggatctn aaggccctcc  360
naccaccaat agcctctgct ctccagnaac agttgaanaa                               400

```

<210> 7822

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7822

```

ganatggagt ttcgctgttg ttgccaggc tggagtgcaa tggtgcaatc tcagctcatc   60
gcaacctctg cctcccaggt tcaagcgatt ctctacctc agcctcccga gtagctggga   120
ttacaggcat gtgccaccac atccagctaa ctttgtatct tgagtaaana tgggggtttct   180
ccatgttggt caggctggtc tcgaactcca gaactcanat gatcctcccc cttggcctcc   240
caaagtgctg ggattgcagg tgcagccac catgcccggc ctctctgtc acttttatag   300
ccatcctctg ctgagaggaa agagctgaca cctctctgcc cagtctcgag gccccagtcc   360
acactgtcta caactatcta cagccatctt catacctaata gccaaaagaa gctccccaca   420
ttaattaacc ctggagtgat cncctctaaat tgggcgttcc ccttnaaaac aagaaaccn   480
nnnnnnnnnn aaattatttc agggccatcc tcccctccca ccaattccca caatgnagga   540
aactctccn                                     550

```

<210> 7823

<211> 519

<212> DNA

<213> Homo sapiens

<400> 7823

```

agagtagact ttataaaact ccagaggatt ttcccaatta acactaaaac ctccaaaaac   60
ctgtcagana tacaattatt ctctatttta gttctttata aaaatataaa aagctgagca   120
aaaaaaccac aaccaatta taaagtcaat atacaaaatg tattctatct ttaaaatggc   180
acagaatgag aaaaaattct tcatgctgat aagtgcctca ttcccaaaca gggacttcaa   240
attgatcaga ttctcttgca ggcaaaagct ttgcagcagt ctgcatttac tggaatattg   300

```

ctctctgaac acggccacat tcaggtttgt taaatatatc ctcttccgct tctggagtta 360
gttgatggtt atctccgact ggggacaggg gtttcttaca aggaagaagc ttttcagaat 420
cttttttaaa tccaaagttt ttccaganc tttganc ttt gatctgttac cccngnttgt 480
tctccgcatt atgangcttt ctctcnnng atgcttggc 519

<210> 7824

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7824

cccttaaana aagcacttta ttttccattt aaacaacttg gtcacaggac gttatitttac 60
ataaatggaa gtaatttgta aaatttccat gtnaaaggcc ttgtgtctga gtctgaggtg 120
ataagaggat atgaatacaa gtatataaaa acagtgc aaa atgtgcagcc cacagcctcc 180
ggagttggct tcanaaatcc cccttaatgt tgctagacca gttacattaa atattaaatg 240
taacaccagg taaatattcc tgggtttcct ttagtctaac atccaacca natatgcaat 300
aaaatgaaaa actcaaaatc cctaacaact caaaccatcc aatcaccag accattagga 360
tcacaatgag ttgagactgc aggctctata ctgtgacatc tcgtcagtgg ctccatctta 420
agaaatacag aatttttagtt gcatcagtaa ctaaaataaa ctaactctgc ttttaaagct 480
ttggctttta aatgtttaat tcnanaaatt tcccttccag gggccnccca aaaggggggg 540
ccctaaaaaa ttccaacccc ccccn 565

<210> 7825

<211> 571

<212> DNA

<213> Homo sapiens

<400> 7825

ccaaaattca ttttttagtat ttctgtaccc aaaccccccg atgaanaaac agcacatggc 60

acacagcanc ctggcccagg gctaaggtga ggcgtgaacc cgcccanggc taaggtgagg 120
 cgtgaacctg gcccagggct aaagtgaggc atgctttcat taatcccgtc aggantcttt 180
 ggctcctctg tgactgcaaa tcatttgac ccacctgcga ntctctcctt ctcaggatgc 240
 accctcatga tacatggagc aaacacaata agccctgac tcatggggct gcttggaac 300
 gggctgaggt atcgaccccc nagtcacaag cttgcgggaa ntgcaggcgc ccatgaccca 360
 gtgccagcat gctctaattg tgtggggatt ttgcataaca taaggtgaaa ctgtgaacaa 420
 aaaaagggcc tgttggttc tctgcatctt taaggactgg gcctggcccc tgactgcttc 480
 caggaaaaag cacattccct ggggaccana aaaatctctt aaaaacctcc cccccaggt 540
 ttaaacttt tccggtcttt nttccatggt c 571

<210> 7826

<211> 594

<212> DNA

<213> Homo sapiens

<400> 7826

aataatatta ttatTTTTca gctgagtctg ggtctcactc cgtcgcccag gctggaatgc 60
 agtggcatga tcacagctca ctgcggcctc caactcctgg gctcaagtga ttctcctgcc 120
 ccagcctccc gagtagctgg gactacaggc ttgcgccacc atgcccggct tatagggcac 180
 tttagatgga aacaaatgac tggatcttta actcctacct ttctctctc tcttctgtga 240
 atgttggtac tgaaggcagg aaggagact ccttggttaa agagcaganc aagagcctca 300
 aagtgtctt tgtgagccac cctggactac tggttcggta nanggttgag tcaagcaata 360
 tttgaggacg ggatataaac agtatttctt aaagtgtgca ccaatttttc ccccgatgag 420
 gccattccag acccaaatta gtcataacag anccaggaca ataatcacat ctctgattc 480
 tgaacctgaa tgcttcccc aggaatgggt tcttccccctg gtctgaaggt ccattgttgg 540
 gggaaaattt cccctgggaa tccccccan ggcctgggga acaaaccncc caaa 594

<210> 7827

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7827

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gtaagtttgt ctggtttatt tgcaggctgt agagatgata tcccagtcca cgcacactcc 60
catgcacacg cacacacata cttcatccac ctgaatttgc ccgacaaacc ctctcttgag 120
tcatagggga caaagccata ctgggcagtc ctcacgttac tggttacatt agatttggtc 180
tttcagaaag aagatgggtg aagtcccaag aagctgagcc cttagccaga gaagtnagag 240
tcctagaacc aagagccaca acctgaaata gatgttnact gccccgccc tccttccagg 300
gacaactctt gagaccctct cctcccagga gttgagtctc aagaaatgaa gggactgatg 360
gggtttccca ggacacacga gccccaccc ccattcaatg agaaaacctc tcttctgcca 420
tttccagaan ctgggggcac acctgcttgc tctctccct taaggaaaat tcctgcatct 480
tgtttaaatg tggaacttat gaaataaccc gantggtctg cctccncnct gantnaggaa 540
aagggacctn aatttnatgg ttttc 565

```

<210> 7828

<211> 600

<212> DNA

<213> Homo sapiens

<400> 7828

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actgaagagg acaagatggg aaggacattt ttattttccc taatcttcag gcaacctcac 60
caagctggag gtcacatgta gctgagtgtg aaaccaagaa aaatacgaag cttcaaaagt 120
actgtgcgtt gtattttctt attctctggc aggctgggag tccaaggta gtctangcag 180
gagggtgctt tggcctaagc agtcacacaa ttttcaccgt cttgagcata tctgacaana 240
catacntgtc atcccaaccc ctcccagget tccccagggt ccgctccaaa gcctgggctg 300
tttctaggan ctctggtgtg gcaagttttt gctcagggtg cagctgacan aacaggatct 360
cattcacttc acctcaatt cgccagacat ataggagggg gaacactgcc ttgagcccag 420
ccagcactga ntcttttagc cccaagtctc ggcacacaag gttgaaaaat aaaaacacct 480

```

tcaggantca agatgctttt aaccttctgt taaaaaaaaat gctcccaaaa tgctnggggg 540
cgganaactc attccccaaa attgggttcc taatgttcac atcaacttta tnanatcctn 600

<210> 7829

<211> 580

<212> DNA

<213> Homo sapiens

<400> 7829

aaaacaagaa agactaaaat gtggtagaa atcagtcttg tgcattttgt acatttgtgt 60
cctccactct gtcttcattt actgtctcag gaagctgatg ccacagctgg ccacagtga 120
acaaanacat cagaaggcca gttagtctct accacanaag cccccaagtg aaccgaattc 180
tgaagggcag gtctcagtgt cccttaactt tgttctcccc agnaaaaatc cattttgctg 240
ccaaatgtga ccagcaaact tgggcaggta catctagcac aatcacantc ctgtcacact 300
gccaacgtgg cccaaggcat ggcgtgcagg gcantctctc tggagggcct ctgctatgcc 360
tgctcaccag caccacctcc accaacagcg gaacccttgc tggatgcctg ggcactctgaa 420
gaacgggaag cctgcttcgg caggcggatg gggacatana ttttgaanc acantgctcc 480
ttgaagtacc tcctcccttt ctctctacnc ctcccnnggt gatccaaact ccnttaacac 540
ctaggtggtt canggcccat tccaaacacc gttcaagcan 580

<210> 7830

<211> 486

<212> DNA

<213> Homo sapiens

<400> 7830

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ctccttagcc acacattant tttttganac cgtgtctcgc tctgtanccc aggctggant 120
gcagtggcat catcttggcc tactgcaatc tccatctcct gggttcaagc nattctcctg 180

tctcagcctc ccgantaacc gggactacag gcatgcacca ccacgcctgg ctaattttta 240
 tatttttagt tnaaatgggg tttcatttca ccatnttggc caggctgggc tcaaacttct 300
 gacctcaggt gatccactca ccttggcctc ccaaaatgct gggattacag gtgtgagcca 360
 ctgcacccgg ccccttatcc acaaatttgg gattgaacta caggcnnaan gattgaaaat 420
 ntntccttcc nccttcccct atactcatgc cactctctgc ccaactttct cttggnccca 480
 taattc 486

<210> 7831

<211> 356

<212> DNA

<213> Homo sapiens

<400> 7831

acaatataac caagggagtt tatttcagga atgcaaagct aacgcaatat accaaaattg 60
 agcaccacag taacagactg aagaagaaaa atcgcnataa tnttagttgt ggcaaaaaaa 120
 tcatttgaca aaattcaaca gccattcatc gtaataactc tcagaaaagc aggaacagag 180
 aggaatatcn tcaatttgat aatggacatg tnttaaaaca ctacagctaa catatttaat 240
 gatgtnagac tgaatgcttt ctcttaaggc tgggaacaag acaaggatgt ctgctctcac 300
 cactcttggt cagcatagta ctagaagtnc tagccagtgt nttatgcca cnnnnn 356

<210> 7832

<211> 511

<212> DNA

<213> Homo sapiens

<400> 7832

cctattttgt acccttgnaa atttattagt ttattctgag gatacaaata acatttatat 60
 atgcacacat gagccatctt aatatttcca tttagttcan aatttcaaaa atatcaatcg 120
 atccttgaac tttcaagtat agaaatgagt ttagggtaaa atagtaacct ttgaaataat 180

tacagtactg tattagattt gtctttttct ttanttgctt aacttcatga actcatttgt 240
 ttttttcttt tnaattttta ttaatctact ttttccaatc cccaatgtga ttaaattcag 300
 aagaacagta tctttcaagt aaatgatgca aaacttcctt tcacatcatc tcacgtcctt 360
 tccccctttg tattagtaga taattatact atctacagcc agaacgatct tcctanacgt 420
 gatcatgcta tgtgctatga aaaaaacctn caatggggga actccnctac cgaaatgatg 480
 tggttntnct gggcagtcgc tcccangtgn c 511

<210> 7833

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7833

aaagggtttt aaatagaaac tttattttaa taaatgaact cttctcaacc ccaaaaccca 60
 gcttctgac ttgactaagt tcataattac tcagggaata acactgctgg ttccttataa 120
 gccactgtgc tgtacgaaat caattcatga aaaggaaacg ccctatttcc aagcatacct 180
 gtactagaat atattaagta tattcactta acatattaat ttaaattgta atgttagtct 240
 aaatgttaaa ttaatttaat atgttaaact taatacgttt atttaatttt tacttaatac 300
 cattactgga acatattaag cattttttcg gcttaaaaaa aacaaaaaaa caaaaaaaa 360
 ccctgaattt acagaactaa aattatgaga ggagatcgca ttacaaaatc tncctctatg 420
 ggttcttcta gctcaaaaana ttttctact gattttaact actgaatttg gngttattat 480
 ttanaaaaaa acccggaag gtgccactgt tgaaancnnt gtttttagga attcttacct 540
 catgaatttc ttttccggga aaaaanactn 570

<210> 7834

<211> 416

<212> DNA

<213> Homo sapiens

<400> 7834

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gcagacaaaa agtggtttat ttagcaccca ctatgtacca ggcacttggg aggtattttc 60
tcacactttc gctttccatc ctcacaatat cccttatgag gtagggacta ccctcatttt 120
tacaggtgag ggaactgagg cttagatgtt gacagaccca tccaaggtga cccagctggt 180
aatggtagac ttcatcctgc tacacagtat ttaaggggcc taaaccataa acaattttta 240
aaaatttggg aaagtcacac ataaaggaga tgtttcaata ctttctctct ccaggtatga 300
acagtattga gcaagaccca cagggcagca ataatcattt atcctgatga aaggttcctc 360
tgtgaaaggt aaggggggtg ggggagacct aaagccttct gcagacccan nnnnnn 416
```

<210> 7835

<211> 366

<212> DNA

<213> Homo sapiens

<400> 7835

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gatgttgaga naacatttat tccactcagt cagctcccgc aggagtcagc aacctgtaga 60
aatatccang ctggacgacc acttccgtgc actcctgcan aaccgggggtg ggggtggggg 120
tccctgatgc tcccactgcc ccaaggaggt aagancctga ggctccgac atcnactttt 180
gacccanggg anccanccca catcccaaaa aaaggcaccc ttgagttaac tcacataccc 240
tctccccacg tgcactgccc attaccggcc accgacaatc tccancgctt gangcaccat 300
tcatccgaca agtgtttcct gaaagttang agcccnntcc tgtgctanac cctgggtang 360
actcaa 366
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<210> 7836

<211> 305

<212> DNA

<213> Homo sapiens

<400> 7836

catgaanagg atgggacctg tttggcccat gaattcaatt gactcattgg ccccatcaca 60
 aganatcagt gactcaatgc tcagcaccca actggcaatg tgcccagnac cccctgcact 120
 tcccaagcag tgagegcaca cccaatgggt nagcccatna acccactttn tnacactncg 180
 ttgggcaaaa ctctgtccc cagcactgaa catngcctaa gcccctatnc agctggcaag 240
 ggatccaatt gccctgcctg nctctanctc ccancattgc tactgtgccc gccannggta 300
 ctgaa 305

<210> 7837

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7837

catcttatga catattagtt tattacatgc ataaaactat aaatgataaa aatgaanaat 60
 gtaatgaaca gtttatgttt ttttaaaca aagtcagatt ttaaagttg tacacagaga 120
 gcaaaaatca ctttacgtac tcatgattgg ctttaatat tctttacact atacatactg 180
 aaaatgttta catttactaa taaggaatgc caagcgtatc catcaccatt tgaatagctt 240
 gcaggggatt tgtgatttct tccatgttat ctcttctcaa aaccaatct ggcttaagtc 300
 ttgaaactat tctggtcctt acaggtgttt ctgggataaa aggaatgctt atagaanaat 360
 tctcttttgc ttgtaaagta tctttcagta ttcattttat gtttatgaac tgtaagtttg 420
 tanaaactgt aaatacggcc acaactttgg gactactttn tacatcaaaa ggncnatttg 480
 ttgtctccct taaaaaaccc ccaacacnaa ttttggttna aatccncccc cctttttggc 540
 actttttanc agct 554

<210> 7838

<211> 448

<212> DNA

<213> Homo sapiens

<400> 7838

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canaacactg ttaatatcca ggcaccattt gtccctgcaa ataaataagt ctctaaggta 60
actgcatctg aactagtgtt aaacacaaca gtgctttttt ttttttttaa tccccccaca 120
aagcttttcc aactatgtac tatgcctcct ttcttattgc tatggtaatg tggctgtgga 180
aataaaacta ctgtacatcc aaaaaaatan agcaccttta acattaaagt atatgtctga 240
ttatttgtnc tcatgtttat ttacaatac taaagcccaa actatggtaa attgctctac 300
atctctacca ggtcacctga tatacaggaa ataaaactca actatcttcc ctcttgaggt 360
aagcccaagc cananactg ttttagcana gtctaaaana aaaaggtctc aantgtcgcc 420
agggtttaca ttcattcttc caccanga 448
```

<210> 7839

<211> 398

<212> DNA

<213> Homo sapiens

<400> 7839

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gcggcttaaa catgtggcaa atgttgcttt aataaagtca cggaaggaca gagccctggt 60
ctggcccagg ccccttggtt ggcagccgga gaggtcmeta tcggaggctg tgcccatggc 120
agctgatcca ttcttgggga tcagcttcac cctcctgaaa ctgacctcag ctgcagaaac 180
agctaaaggg ttctctttag actcaaaatc tccccctctc cttctctgtc tctgaggcta 240
ggtacctttg gtttcaaaaa tgcattaggt ggggaggatg aaggcagcac cttcggtctg 300
agaactgcag gtctgcgagt gtctccattt ggggtgactg gtgaggacnt gtgttgantg 360
gccacttctg gtcttgccgg aacacttgca tagnnnnn 398
```

<210> 7840

<211> 535

<212> DNA

<213> Homo sapiens

<400> 7840

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aaccttggtc anatttcttt attgaaaaat taaagtcata agctctgtat ataaatacaa 60
tgacactgct ggtcacctgc aaggcctctg ggataggctg ggggtgcaaa aggaaactgg 120
ggccttgggg tccccagggg catggggang gaaataaata ataaacacca tgggggataa 180
ggaaccagga agaatggggg tntnaatggg gaagtgtcc atgcttattt gtggcactaa 240
aggtcttgca anatgcccc tgactggggg ccgtgtccat gaattctcna atgacctcac 300
tttggacaaa ggctcangca tctggggatg ggctgggtcc tancgtgaag ggggacagca 360
ntcccccaa cccaacctgg aaaaaccanc actctgccct tccttttctt ttcttctgt 420
cttgcaacce acttgtcttg ggcccctact gttttnccaa tacaacacca ttcctgaact 480
gaacctcttt ttncctnttt ctgctcncac ccccncccat tcttgttcca ttngg 535
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<210> 7841

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7841

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caggcattaa ccanatttaa ttgtttttgg caggtaagta caggctctgg caganttacc 60
aactattctg gtcaacaaaa gtaaagacaa gtggataatt atttttagtg gagctttaaa 120
aacctgtgag aagctcacat tgactttttg gcctccagtc cacaaaataa tacttcattt 180
gataagctaa agtaaaganc aattttatgg attaactcta tcaaagtga gcacatgaaa 240
aatgggccta aagtcacaat atattaatca ggatataaaa aattaaattt tcacanaggt 300
tttcagggat gtttgtttgt taacaatgac ctatatgtaa taatgttatt tgttaataaa 360
ttcacacaac acaaagcagt aattaactaa tgaattttca tttttcttc cccaatatta 420
aaaagggata attatactat cattataatt tgataatgtc tatactgtct aattagggca 480
cataatatcc tacaactac tactataaaa tgtgggaaat ccnanaacta taattaatac 540
tgtaattaaa atccccccc 559
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<210> 7842

<211> 537

<212> DNA

<213> Homo sapiens

<400> 7842

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gtaggcattt actgataaaa cttccctggt gttaggggga tataaaggac acaaaaanaaa   60
cttcaactgc ctcacaatgt gaccaanaat tgatcatagg taactcttaa agatacccac   120
tctgtccaca aaaatggctt atcagcaact gtgttctgc tatgtgactc taactccaca   180
gccacaactg gttggagcag gagtgaatat ctgattcaag ttgaatcana cctattatct   240
ctctcaagca ttgacctgan acaggattgg gagctgggag tgagtcattc tcaacagtgc   300
tattctggag ggtgtgtcca catactgcag ctgccacatg cccttgtaaa actggattgt   360
tcaacttcta natttcatga nctccactat ccttccaaaa atgtcactt tttcttaaac   420
attcttgaac ngatttctgt tntttttaac aatanaaatg ttattaacag aacaacaaat   480
tttgtttgaa aaaaaaatct ccctttctcc tcnncggttt ccattccgaa aanaaaa     537

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<210> 7843

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7843

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aggagtgttt ttgaaatatt gtttttcagt ttattgtatc accaccttgg aactagttag   60
cttcttacat atacacaaag ataggacctg cagcaacaac tcttatgaca tttttttcat   120
atcagccaca caatttacat aaatatgcaa aatgataccta ggttacctg gaataaaaaa   180
tattttgaaa tcttattgcc acatgtaact accaggttat tttttaagg agatgtgtag   240
gttgtgaagcc tataagaaag gtacacgcag aatgcataca cagatacaga aaaacaagta   300
caattacaat agagacataa tacatacaat caacaagagc tctgcctgaa gcttctagca   360
acttatacat tttgggtaca cagtacattc agatatcact acttcacagg ttgaaaaaag   420
ctgtcttgan aaacactaat gcaaaagctt atgaagattt aatgaagaat ttaagttatg   480

```

acncctttgt tnattaactg gcaggtgata aggnngcttg aaaaaacctg cnnccctgaa 540
tgaaatcccc caaataattt cccagga 567

<210> 7844

<211> 509

<212> DNA

<213> Homo sapiens

<400> 7844

aactaaggaa agcttttatt taaattgtgc aatcaatcag tatttaaaca gcagtttcat 60
aaacattttg gcatttaaac ttttattcat ttttggcatg acctataggg tagtatataa 120
actaccant ggggtggggg caantactaa gcaatatitaa ctatgatact agaaaaaaaa 180
aaacaaatct acattattaa acaaatatnt ttttaaaaaa cattaaaaan atacattcna 240
aatcaaggca aacatttgct ttcttcgtgc aatggcattc acanaactga tcccctgagt 300
caagtntaaa attaatatag ctacagctcta cantccatta agcaagtcta caaatgctgc 360
ccttacaaaa aaatggtata cggagtgaag ggatncacaa caccataat acnaaataat 420
ttaactggct ccccncttc atttaattca catctttgaa naatatttaa anaaaaaatt 480
ctttcccccg acccaaattt tgtcntacn 509

<210> 7845

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7845

aattagaaac aactatttta ttcagaaaag tataaacagt tagcaattag aatcttctta 60
tatacagaca taacttgcag aaggttagt ctgaggacgc tgttctgggt aatttttaca 120
gtccttttta gctctaagat ccatgacact gcatttttat ggccaaaggg caatcaatta 180
tgcacctggt tgtctcaata ggcagtaaaa cctaataata ataatgaca aatcatctgc 240

cataaaaaaa tacgaaaaac ttttgaaatg ttaatttcaa ctccaatgaa acaaatacct 300
aattaaaaca attatttatt ccctgctaga atataaaggg aacaacaagc ttgagctgca 360
aggctcaagc tttgagagca cagaaagatt tttaaactaa taatgcattt taagtccaag 420
aaaatggagc cagcccataa tctcatgttg gaatnccctc aggcaaactg gaaaacncat 480
cctgaatata tctgcaatgc gaatctccgg ttatttgnt ttttaaaaaa aaaccactc 540
ctccgtggtt aatttangaa ttcctttaag ggaaaatttt aaaaa 585

<210> 7846

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7846

aaaaaggact tatccaaata atctggataa taaatcgttt gcgtttccta anaaactggg 60
tttttctttt cccttgtggt tttggtgttt ttcttcttct ttgancctta ctancggtct 120
gaagctttct ttctttcctt tgcctttttg ctttttgaca gganaaagca gtttgtctga 180
attgtacttg actcttcnaa nangaaaagg gcgtggaaac anaagggggc ttagggagaa 240
aggacaaatc nataacggag gaanaaaacg anaacggaac taaaacccat ggaacccaaa 300
aattnccggg ctganggtgg gggggtggaa ggaaggcctc ctgcctgccc gcccccaacc 360
aactncctcc agaagcttca gcccctctt ggttcctgca cananatctc aggccaanaa 420
aaaaaaaacg ggggtggaaa aggaactctg ggccctctaa caacaaaata cntggatttc 480
naaaggttgt ccttggctctg ggggttggga aaaagaagaa gaaaagcncn ntggttttaa 540
ctggaagaac naaggcaact tccctccgga ng 572

<210> 7847

<211> 576

<212> DNA

<213> Homo sapiens

<400> 7847

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gtagaggcag ttccttttat aaaaagcagg aagccttggt tanactccaa tgtataaaaa 60
atagataagc atatacttgt tgctgataga agtagtagca cctaattgtc ctgtgaanaa 120
tgtactgaac aagtttaatt actacaagtt gattttttat tgagtgcata gttaaaaata 180
acgtattctg gagctatatg ttacaaaaaa aaacatgtac atggaaatca aacttctatg 240
ccagaatgtg gatganaagg aagcaaggcc ttccctgacc acccactccc canaattcag 300
tgccctgcct ggtagcgttt ttccataggc cctggcacta tctgagatat catctgtcta 360
ctcgtcttag aatggaaatt cttgagggca gggtattttt gcctgccatg ttgatattcg 420
cattcctcta tctncaacat gtctancaca cacaggtgcn cagtacatgc ncttaaggaa 480
caataatnn antttgaatc cctaacctcc ttggctggt ttgcaaaaa aaactntttt 540
actttaaatt acaagttttn gaattccaan cttttt 576

```

<210> 7848

<211> 486

<212> DNA

<213> Homo sapiens

<400> 7848

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ggatttctga ttcagtttaa tggtaaggag ttgtgtnaaa ccgtaccaag tcctgcttct 60
tcctcaaaat gagctgggct gcatttttgt gactggaagc atttctcata atggtgaatt 120
aagcactata aaaaaataaa gtcaatccca tctctatgag tngcataaga gctgcttcca 180
anaaccagg gatgcccaaca tcccataacc caccanaca cggccaattc ctcatanaca 240
gtacataaa accctttcgt caacttggtt tggggggtga nananangca gtgcttaggg 300
aaaatgtngg atggattttt ttatttctg ccactaccaaa aaactataaa tctacacaca 360
cactcacacg cacatacatg tccattttta agaaagcttt tcctccctgt gactacagga 420
accagaatc ccccccccc ngggtgaaaa aaaangccta nttacnggcc cnatttttncn 480
tttcac 486

```

<210> 7849

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7849

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ggaaaggtat aaaacgtgat agatggaaca gtagacatac aacttgaata acaagtcaca   60
gtgcatcgcg ccatgaaaac acccctcccg cccaccacc ccaccgtacc ccaccactc   120
tggtttctga aaggangctg gtggtcacca gggccctaaa naggcacctg gagtcctcaa   180
gattgtggag tccacggaca tagcacactg tgccactagc cacacagaca gctgggctta   240
gtttcccaa acattgccgt gtgaaggaat cagactgctg aatatggcag caatggctgg   300
agccgtatta caggtgacag gttcacgagg aggatccgct gagcccgctg ccgcacctca   360
tcatccgagg accgcctatc tacctttatg gcacggaact tcancagctt tgctgttcca   420
ggccctacca tgccttanga aatcggggcc caaccctgtt ctctccttgg aagaaaatnt   480
ttgtcccca ccctttcctc tcttgcccaa aatctcaggg nggtttcntg gcctncctnt   540
tnttttgcc ttacaaattc ctttgccgn cc                                     572

```

<210> 7850

<211> 502

<212> DNA

<213> Homo sapiens

<400> 7850

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aaaaggtttc aagttcaata gtcactctct ccaaatacaa aaagcagtta caattcaact   60
gaacacagaa gcttgtgtgc aaagttatgg ggaactgggg catcntataa aaagttgggt   120
taaanatgat tctgtggttt gggtttgttg tggtttgttt tgtggctctt cctcagtcac   180
ctgaactcag gaaanaaatg cttatcttga tgaaatatca acagcccacc cacagtaaaa   240
agacaaattc taaaaattaa aaaaaagcgc ataattacca aaaaaagtc actgcttcct   300
ccccctccc attttgcttt ttaaactttt ttttttttaa gttttgattt tttttttaat   360
cctgaaaagt aaacagtaaa acagctcctg gggaaaattt acaaccaact gcatnaaggt   420

```

ctgggaaact naagggctgg aacanggttn ggaaaaatta acaggaaggg atccccccnc 480
catccctgtt accnccctnt tt 502

<210> 7851

<211> 316

<212> DNA

<213> Homo sapiens

<400> 7851

gggtnatgct gaatcacatt tattacaaa ctttcctggc cccatgctca caggcactgg 60
tactgattc aggcatttgc cagggtgtc tgcttggcn actgctgcag gaaancaggc 120
tgaggcccca ntgcccantc tgaacctta aaccggccct cagganggt canccccata 180
ccactagggg ggctcctgca aacctgntcc cttggcctga ggcagggatt tcacctcctt 240
ttgcangaac cnetgcaagg ctgtngatna aactttctgg tcacaaance ccttctcctg 300
gggctgctgt nggant 316

<210> 7852

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7852

catctaata ttttattaat atcatataac tctgataatt gtcaggctctt catctttatc 60
ctanatcaat ttgaaaagca tcactttttt acccgaataa aaatttccaa ttcagttttt 120
cttctttttt caattttctc cgcctcaatt tggcaagtat gacaaatgta cagatgggtg 180
acagctggtc ctccaccata cctgctatat aggttatccc aaatgttctg aggcagcatc 240
aaaaccaggc cttcaatata accagctttt cttggaggaa cacctccatg aatacaaaga 300
aagtcattat ttgaaatagg gccagggtcg gcaaaggctt taaatttatt aagccactgt 360
cgagaaatat aaaactgaag gangcttggg tccattatgt tcaataaatt tgatatacctt 420

ctcctctctt tttgtgcctc ttcgctgctc ttcctataa aaaaaaaact tagcttctgg 480
 cntttgttca ataaaatccg aaacttcnat taaactctga tctccaantc ctaccaaaaa 540
 tantttaaat n 551

<210> 7853

<211> 516

<212> DNA

<213> Homo sapiens

<400> 7853

accacagtct aaagtccttg tattctcttc cacataccag ggctgataat ttatcagttg 60
 ccattgatca aagttcaca ggcaaatctt cataaacttc taaagctgcc tacagtttcc 120
 cgtaaacaaa tctctaaatt tacaaaagca atgcttgctg attgtaaaaa acacacagtg 180
 ccaaagcata caaaggaana anaccgctt gcaatttgct acctacatcc cactcttggg 240
 gccacaact attggaagtg tggtagtgga ttgacttaca tccttctaga tcttatctac 300
 atatttgcaa agaaaaaata tacatatata aaataaaata tgtgtgggtt atatccttac 360
 aaactgagat cataggcagt tccgcaactt gccttttctc tgtaacaata aatgatggat 420
 gctttgcang gttngtgcta canatnctat ttatccttta aaaagntgca taagaacct 480
 gtggcccatg aaataatgca tgaanaccta ttgaac 516

<210> 7854

<211> 542

<212> DNA

<213> Homo sapiens

<400> 7854

gcaaaaaaaaa aaacaaaaat aagtgcatTT tatttaaaca acggaacaaa catcaganan 60
 catcccctgc aaagccccca ccccaaaacc tgctgatgga agcggggctg caggacgctc 120
 tgccacaacg gcagcatctc caactgcaca aanaccctt gctgccaggg ccgggcaccg 180

gcctanctcc tcgcctgcct gcctgaggca gccgtggaat cagggcaggg gtggcacagg 240
tnnaaaagac agatggaaac aatgcccatg aatataccca aagtgtccca ggaggataaa 300
agccgtcatg aggaccanaa gccaaccag tctttttttg gcctcctgga naatttgttt 360
ttgagacctg anactccacc tgaaatggct ccctgaagan cccacggan caagaagggt 420
nttctgaaga caccctgaa gaaaacacan tgcctgcaaa agganagccc ccaccaccct 480
cccgaaggg tctggacact aaccccatcc tgaaaagggt aaaaaaaat gaatctccaa 540
aa 542

<210> 7855

<211> 507

<212> DNA

<213> Homo sapiens

<400> 7855

ggtcatttcc tttttatctg tcaggcagcc agctctgact tactctctgt ttctgtcatc 60
tctccccac ataccaactt cttcaccatg atgattatac caataatata gttccttata 120
tgaggggctc tggaaaatta nacagtgaag catgttgcag attacatgtt aaacaggtct 180
aattcacaat gaatgacaac ttgagacaat atgagacagt tttcagacaa cagttttgtg 240
gcaggtaggg gactcctttc tctgcttact cttcttggct gaggttgtgt tgcactggct 300
gaggttgctg aaacagtggc ccatggatgg agatgtataa tcagaagcaa ggagacacag 360
ttctccgctg gagtcttcta aagaaatcaa gcctgcccac acttttgatt ttggncttct 420
ggtctccana acttaacca aaantccaan tccaaaatcc atcccaagan aangaaaaat 480
ccctcctgcc tgttaanccg ttgttcc 507

<210> 7856

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7856

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aatgcttttta ttctacataa attactacca taggctaatz tttaaaaagc aaataaaactg 60
gacanatgca ggacaaaatc tggtcaccca actataaaag gtgatgtttt taaaaaatta 120
caataaatgc agaagtgatg catgcagtaa ccttaattcc cactgttcca gaaaagaaaa 180
aacagaaaaa cccacacatc ttactgtact ccaccttaaa atgcatcata ttgggtttgt 240
ttataacagc acagaattcc aagagtcaaa atgaaataaa gcaggatattt taaagtttaa 300
nanccgttat caaaaataaa ttacattttt tcaaaataca naaatgctgc tatgatggct 360
gggagccag taacctttca atagctgcat tgatataacc tcctgttgct attaaanctt 420
gcaagtttgc ttcccnggtc caaaatccca ttgcctgaat tgtccnattg ttgctgaaat 480
ctgactcngg atccgttinct gaagattacc cacaaaaact gcacatnggc gaanaactgt 540
ganggcnat 549

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<210> 7857

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7857

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ctagactgaa acaaaaagcc catcccatat cataacatat aatactgcct aaataaaaact 60
ttctatgatg atagaaacat taagtatcta cactggtata gcagccacta nccccacatg 120
gctagtgaac acttgaaatg tggcttgtgt tactgagaac tgaattttaa attttactta 180
atacaaaatt aagcagccat atgtggctag tggctaccat gctagacatc gcagtattag 240
aacataaaaa aattctataa gtaactagaa tactggtagt cctanacgtt tcttgcattc 300
tgaaagccat anaactgaag ttgttatgta tggttatttc tactttttaa aaaaagcaaa 360
ttcttgctgg tctatataat agaatgactt attttcttac gtggtaagaa cagaaatcct 420
acaaggaact ggganctang ctggcaggga aaaattgaag gtgatttntt taatangaat 480
gttatgcaa ttcttctgtt ttccaaaaaa aaaaattatt gcttatgaac attactggaa 540
ccngggnttt ttgttttttt acttaantta ataggtt 577

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<210> 7858

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7858

```

gaacattcac aacctttatt atgggtgaga ncttcactac aacttttagaa ataaaaagta   60
aaattacaac atangtccta ggccttggcg ancctgaaaa anaaaattgg gaaaganggc  120
acagggtcct tccacctccc tggaaagggtg canaatganc cangcctaac tacagggcca  180
tgagcctcta taancttagg ggggaataan aaacactgtg aacttanata tataaataga  240
gagagaccen agcaataggc cgggcctgac tcccanaccc ctgcagatca tggctaaggc  300
cttacatcct cctctgtcat actggantan gangcagggg aantcatctt tggagtattt  360
tggtttttct tatttatgta caaaaaagtc cacatccaca atccaaaata aagtctcttg  420
tccatctctg aaactgcctg tctcantttt tcccctgtct gtttggncca agggaatgga  480
attnacttaa aaaaccatgg attttaaaaa aaaataaacc ctggtttttg ttattaaaaa  540
aaaaacattt gggttcaaaa aattc                                     565

```

<210> 7859

<211> 571

<212> DNA

<213> Homo sapiens

<400> 7859

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atttccatac atgtttatta tatacacact gcctatagat tctgtttaa taatctctaa   60
gaaaaaaatc aaacttttct gagcaggtga ttaagctgaa aacaaccaat taaaaccacc  120
actttttaag tgaccttttg tcacaaatgt caaaatgttt ccacaccctt tccaccctca  180
aacaaganac aaactgtttt tgataaactc tagtatttat taaattataa attttgnat  240
cnaaaagaaa aatgcagacc aaaaaaacct caaactataa gactagacag caaagcctat  300
gggaacacca tgaagtgtgt tacaacatt ctgaaacata agttactggc tgttttcatt  360

```

tccatttcaa taactttact ataaaatagt tgttattcat ctattttgaa atcccaaatt 420
 cncatctatt catacattaa attatgtttc ctgttcataa tatcaaacad ctcacagggtg 480
 ccaaatttaa taatgggtctt atgccatccc tgccgaaaaa ataaganacc atgccggatc 540
 cnatnaggac cntnatgccc gatatncaac c 571

<210> 7860

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7860

cttcaatggt tattattttc gtattttttc acttaatact acataaaatc taagatctca 60
 gctcttgga tacagaaaaa tagtttcaaa gtgtatttta gcaaaacaat ttataatgaa 120
 attagcattt gtgaattaag catgtcaaca ttactgtgtt gcttgtagg cacactgctt 180
 attgtacag ctttatcagt cagttccatc atttcaatat ttggcccccac cacaccactt 240
 tgaaacatgt aatgaagggc aagttttata ataaaaaaaa caacttgga ttactcaacg 300
 ggaagtcagt acatgttttt tgcaaggaga acaacataac tgtttaatga tgctgtcttc 360
 aatatactac ctaattctgt ttatgcaact tctcaccagg taattgtttt ttatgggtcag 420
 ttttgctttt ctttgtcccc tagtcaaggg aganttggtt gtgttggtat ctggaaattn 480
 cctcatgtcg aataaaacca ctanatgnac tcatnatnta ggtgttttct ctagtaccat 540
 tacacaaaaa aaaagggtccc caaaa 565

<210> 7861

<211> 534

<212> DNA

<213> Homo sapiens

<400> 7861

ctgtgggagt ataaatatgg ggacatgact atgggactat atattttcac attgttagca 60

ctttgttagt acagttactt ttaggtattg tcttttagta gcattattaa agttaaaaaa 120
 taaaggaaac agaagtaaag agtttataga aggatacaca gaaatacggg acttatctct 180
 gagggtgac attagaatgg gtttttcatt ctatcctttt tactttattt atacattgct 240
 tatataacag atatcattca agagcaatga agataactgt ataatgctat ggcggtcaact 300
 taccttagca tacaaccaac ttgataataa ataatgggtca aatggccaaa cctaccaatc 360
 cacagaagat cattcaaata tctaaaatga ttatggatca gacatacaga ataccnaaca 420
 taggatacaa acaacaacaa caacnacnac aatttcccat gattaaagcc canggttta 480
 aaaaaaanac cctttcttag gtnnttnac ctaaatnttt tccccccaa aatt 534

<210> 7862

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7862

ctgccaggta aaggtcagtc acctgcacac agatctcacc actcacgata tgctgcagct 60
 gtctgacaat gctctggatc agtttgtcca tggtaaaggc aatgtaggca tgaatgggtga 120
 acatctctct cagtgaatct tcatactgtg atgagctctat gttgccatcc agcaggctcc 180
 gcacatgtc caggaaagct gggtaataat cttctacacc aacatccata ggttctttga 240
 nacgtanctg aatggcaggc ctgtcactct tgtctcgctt tatgcccagc acttcccgtt 300
 cccattctct ctctcggttt tcttcttcaa tttgccgttc ggcttgggaa caaatccgta 360
 gcagcctcag gcaganaatc tgggtgcagtc gcataaaaaat ataccagttg ttgttgacat 420
 aaaaaaagtt gtataacttca tccaatccct taatttttga actgctgtnt ttacaaacaa 480
 ttacttgga ttaaggggaa tgccccaanc ccatttgctc ctaactgccc cttgggntnc 540
 atcnaantca nct 553

<210> 7863

<211> 520

<212> DNA

<213> Homo sapiens

<400> 7863

```

atnggacaac acanatttat tatgtttatg acatgttaaa taanctggan aggttanant   60
gacagttctc agtgttacct tttcagggtc atctttccct aaagtacagc aaaccaaaaa  120
aaaattaaat taacttggat caatttcccn aataggggaat ctaagtgact atagaaaaat  180
ttacagaaat acntctggaa taacacacnc agacatatat ttncataata ctgttaacat  240
aaaaaacagc taaaatttct ncnncagaa aacagatgcc aanatgacaa ataantccag  300
gtaggcattg taaaatctgg ttaaatacac taanaaaaat actaaactgg tgagttttac  360
ccnacaggga atcttaaaat accanaaaag tacctccaat tttaccttnt ttggaaatga  420
aacaattcn ttattttaat atttaaanat tgtggtagta tantccaaac ncttaatntt  480
ataatatncc tttagaaatt aaatttaagt cnccccaccc                          520

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<210> 7864

<211> 543

<212> DNA

<213> Homo sapiens

<400> 7864

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gtttganaaa tcttttatta gaanatgtcc cagaagggnn acattttaaa atcaggcaat   60
cagtaatcac aactaaatac aaaatttcag gtgaacttgc ctttcaaaat aaatcanacc  120
cttgcaacag gaaattgccc caagantttt tttccttgn caaaaacagt taacaccact  180
ttgcnaaagg natncaaaaa tacaatatna aaaaaaaga ctccccagc ataatagcca  240
acagcagctt ataaaacaca agctattcag ttganacatc agtaacctac acccaaactg  300
tcctccatan acaattccan aantcagctg gcttttgta accatgctcc aaaagggtna  360
anaggctatt tccaaacatc ccctggggtc ctctgaaggc aagaagcacc tcngaaagaa  420
accattatgg acaataaatt tggaaatnca gctggttttc ccnaaccata tntattctta  480
ncaccctac caccccaact tccaaacca aaccncaggg ccctgctntt cttgggnaaa  540
att                                                                543

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<210> 7865

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7865

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aggatctgta aactacattt attgaatact tactggacac atcatataca aaaaaggatg 60
ggggcaggta anaacttgaa naaattaaat atacacatta agtttcttca ctaattctag 120
ccactaaaga agtacaaaat ttgtacaagt aatactttat aatgaaattt tgatgcctgt 180
caaaagggtta ataagctata catatactac aataaacatt tttaaaaact gtgcttaata 240
tcatagaatt ttcttaaaat gggttggtta aataacctata tagcatccat tcttacacac 300
atattttcca ctaaagattg cttaaatagt acaaattcct attgctaana aattcatggt 360
caacagctgt atatgaagtt cctctaagaa acatcacagc atttgcagta agtccatttc 420
tccagtgaag cccaccttat tttcagttta ncttactaac aagttctcat gaaaacgttt 480
anatgtcttt ngctggncac ctccctccagt ttccgaatcc tttttaaaca atttnaattt 540
cccaaattggt tt 552
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<210> 7866

<211> 481

<212> DNA

<213> Homo sapiens

<400> 7866

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ccanaatgaa attttattgt gtaaagtta tagaagtatg actagtattc ctttgtacaa 60
agtacacaac ggttttaaat ataactgaga naaatgtgag tcctntgaca acatctgata 120
cacgctgaac catttacaga cactactaaa atgttttaaa atatcttctt tctccaaaga 180
gtccnttgcg catttcttag agtaaanatg gggacacatn ccaggcaagg tcacnatggc 240
attttgttgc cctcaangct gattttcnct gcgtgtgcan atctgctttt tttcctnata 300
```

tctgtgaact ttctcatctg ttnanccagt cgaccgatac ccttcttgga ggtcgccctga 360
 aacctggatg actccatttc cacattccat ttgggcctga acaacatata cttgtttgaa 420
 ggcatggga cccttgcacg ggcnnnaatc ccnggatctn cncgtcttng aacctctccc 480
 c 481

<210> 7867

<211> 534

<212> DNA

<213> Homo sapiens

<400> 7867

attttttttt cctcttaaga gtaatatata cacaacacag cagctacatg ggtgttcagg 60
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 gattcagcag cagcaagtct acagcacaaa catggatggc attgtccctg aaaacacaca 180
 gttaggtgga cctacaggag acattggagc ctaaacaatgt gggaaagggc tcagttacag 240
 tacattctac tgcatacact tgaaatatta cagtgtgttt tttctccaga ctattataaa 300
 taatttttcg tgctttctga aaaaaataaa aactgaaact ttcagtctgc gatgaangtg 360
 aacccatctt ataaagcaga ncttacttac attctgcagg attttggtgt ggatgcataa 420
 aangcttacc tggttagtaa gcctccattc ctccgaacta canaaagnaa nccttctgca 480
 ctcccancan ggaattctta aaaaaaacia gtnttttaaa aatcttactt tncc 534

<210> 7868

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7868

gatttgaaac ttattatat aaattttcat ttcttttaaa gattacaaaa cctgttctat 60
 gacaggaata caagcaatat tgttccagga ttattcatgg atacatctga agagcttaga 120

ttacacatta atagtatgat ttgaaaactt cccagattag actcttaagt aaaacaattt 180
 aaagtattta gtgatatttg atcctttaca agcattttat aattatggca gcaatgccaa 240
 gcatctgatg cgatttaacc accaacaaaa ggtacaatat gtaagaattc atgatatggt 300
 atcttgggct tctggcatgc cttactagag agaaactagt ataaaggaag atcatatata 360
 acagtagaaa aatatttgtg atttttttct tttttaaaaa ctatttaagt aggcacccac 420
 cccattccca cccatgacca aaaatgcaaa ataagtacat cccttaggtg tataccttcc 480
 cttttgctta gggngcagtt aanataaact aataccgttt ttgaatttta ganttttaaa 540
 cccccccccc cntcccnng ggg 563

<210> 7869

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7869

aaatTTTTTt ctttcaattt ttattcattc agcaaatact aagctccac tatgcacata 60
 anagatgttc aatcaatgtt agatgaaggg aaaatattca gaaattcaca agtcactcca 120
 gcactccaaa aacatacaac tcttcatgct cctcccttct ccgttcttgg cctcatctct 180
 gcccacatca caggttggtt aatgctcaca tgaacaagaa ctttaagcaca gtatgacatg 240
 gcctgtgact tatacaaatg tctgtccac caagaggcca tcttttaag taggtactag 300
 ttccaagcct aaaaacaccc taacgggtct tcagcttcat ctgaggatat gccacagtga 360
 tcatgcctgc tatagaggac acaagacctc caagtccaat gatgccagga ttggatttat 420
 agatccccag ctggtccaaa gggttcagga tatcacaag gttcttact gtgtccaaga 480
 acaagggaag atgctgcttc cnaaatctga atnnaanaat tttaaaggat tgggnccttc 540
 tgtttcncc ccccccccc tnaaacc 567

<210> 7870

<211> 571

<212> DNA

<213> Homo sapiens

<400> 7870

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gcacgtagta acttatagat atatttgga aactgattat cttttaaaaa atgactacta 60
aacagattaa aatgcagagt tcattaaaat acagaggatg cctctgggtc tctggtattg 120
actctttttg tctactaana taanaagtct gggctaggct gaaaaactca naatccaggt 180
ctgggggttc ccagtactat gctcccattt ccgagtactg tgctcctatt tcccagtact 240
gtgaactccc ctttcccagt actgtgggct cccatttccc agtactgtgt gctcccattt 300
ctcagtactg tatgcccatt tcccantact gtgctcccat ttctcagtag tgtactccca 360
tttctcagta ctgtgtcccc acttctcagt actgtgtccc cacttcccag tactgtgtct 420
ccatttccca atactgtgct cccattttgc agtgtgtgta gccccattt cccagtactg 480
tgctcccatt tcgcantact gtgtccatt ccnaatacgt gcncccattc ccnaangtt 540
gtaccaagtg tttaaaaaaaa tntccgggga a 571
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<210> 7871

<211> 593

<212> DNA

<213> Homo sapiens

<400> 7871

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cgactggggc aggcgggctt tattccgggt gctggaaanc tgtgggcccc actcctcccc 60
caaaatgcc a cgggttgag gggctgancc tcancagggg tgagcgtca aancangaag 120
gggatgatgg gcatgcgcag gggcgggtaa tcccgggaact ccttcaggta actgcggtgc 180
ttgcccttgg cccaaatggt catctgggtg aagcccacca gggganaaca gggccactgg 240
ganacactgc ntcgatgatg cgaaaccgat ccaggacccc acctcgtagg tgtatttggg 300
gcaggacacc ancaggaaaa gccacgtgaa ggggttcttg gtggggtatg ggatcttccg 360
cgtcttggac ccancgggcc gcaggtcccc cagggccatg tggatggaaa atttccgagc 420
tggcatatca caaaatggc naacgccant ttcacctgct gaactccgta ggtaggggga 480
atttaaaaaa ggtgattgat nttataggcc accaccgc n aacccatta ttagttgcan 540
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tccttgaaaa ttttcccca ngcatattcc ctgggaaaaa ccgtnccaaa aac 593

<210> 7872

<211> 512

<212> DNA

<213> Homo sapiens

<400> 7872

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 agtggggata tcaaagcttt aggcaaaagg gtnaaaacca atagtgtttt ggatcatctag 120
 aacattaaaa agaaaaaaga gccntccttc naaaacaaaa caaatgaaac agaaaatagg 180
 tttataagag gtggaanagt cngaaaaatt acatacacac attaacaaca tagaacatgg 240
 attacctttg gaaanaatca tactgaaatg tttgctttta ataaattgaa natttttcat 300
 gtttacagat gtttgggtat gttcaatagg agcttccaaa aatgtcaaac taattcagtc 360
 ttgtgcaaat aaaacctaata aatagttttc agcagatttt acagtgatat tcttagggta 420
 tganaanaat gcncaccctc tanaaacnat gaaacngacc aaagtttgac aatgaatggc 480
 ccntaaaaca atgttttttt tccgttaca aa 512

<210> 7873

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7873

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 tttctagctg gcactgaaac ttaacctatt tttttgaggg anaaaaanac taaaatgtaa 120
 gcactaactt cctccttctg catcttccac anaaaaccca cttgtgggca ttctctttct 180
 gtccgttatc agtgggttta catccgaagg ccggcggcaa gacacttgaa ccacaaacac 240
 canacatgca ggtgtctcaa tggcatgcan attattttaa gtgcatcact tgtgagaanc 300

ttctcaaatt tctgactgtc ataaccaggt gtcacctaaa atctgtcctg taggccaaga 360
 tgctacacgc agcgcccagg cagtcagagg taagtgagcg cctcccgcct cagaaagctt 420
 ttacagggcc acgctcgcca ggctttcctc gcccacgtg aaccacgtcc tgggcacagc 480
 aactcccaag ctgtcncaat ccgctggnaa tgccancaca cctctccgaa tcatncacan 540
 tggtnctct ataactctca nccaacc 567

<210> 7874

<211> 588

<212> DNA

<213> Homo sapiens

<400> 7874

gagatggagt ctcgctctgt cgcccaggca ggagtgcagt ggagagatct cggctcactg 60
 caagctccgc ctcccagggt cagctcattc tctgcctca gcctccaag tagctgggac 120
 tacaggcgcc cgccaccatg ctgagctaat ttttttttg tatttttagt aaagatgggg 180
 tttcaccatg ttagccagga tggtttcgat ctctgacct cgtgatccgc ccaccttggc 240
 ctcccaaagt gctgggatta caggcgtgag ccaccacacc tggccaaaat cctatacatt 300
 aaatgtttgt cttacccaaa ccccaaagtt aaattgtaa tataaaaccc acagcggggg 360
 tgagaaaact ggagaacagt ctttctctat tttctacaa tcttcaaata agaagtatct 420
 gcttatataa gacaggttag tggcaatacc tggcttanaa agtttctaga tttatttcta 480
 gctctctaca tactgtgata aagtcctaaa gtttaaaaat accccaata ttacaggcat 540
 gctgctttat aaaatatgcc ctaaattcna accaaatact ccnttctt 588

<210> 7875

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7875

gttttttttt gagcttanaa aatttatcc tttgttctt ttcctttgaa ataacacaca 60
cangcagga ngtagggcgc aatggaagtc naaagangtg gaacgtgcgg aantcctcca 120
gcccctcccc aaatcccagt tcccctttcc aagtcctcc atggggtctc canatgatcc 180
taagctcana atccaactat gaantgcaaa atgtnagggc gcaggggang aagactttgc 240
tcctctctct ggtagaaaaa tanatctgga atgaatttgg ggatttgggtg gttttttttt 300
gtttttgttt ttgcatcat tgggtgcttg ggtttaagga aaggtggtct ttgccgattt 360
tctcctggct ttcaactctg gaancctggg gangccctga taatgctggg gtggggacat 420
cccttcatgt gtccctggcc tcanactgtc tccttgccac ctccaagaat gagtgatccc 480
tccgaccctt ggaagaacac anctctgggg antatccct aaaangtggg aagggganag 540
aaaaactttt aattttngga aacnngaat taatt 575

<210> 7876

<211> 527

<212> DNA

<213> Homo sapiens

<400> 7876

caattaacaa aagtccttta tttgtgaaca atgaganana ctgacactag ctttgtatgg 60
ttttactttg gaaaatttta caaatttaaa gtaataaatg tnttcatttt ctactctgc 120
agaagttcaa ttttaaaaag aacattactg ttctaaaatt tcaaaacata caacatagtc 180
tgtgcttgta acattttcag attcgtctgt gacagcttga tgttntgaag agaangaggg 240
agaatggctg tgagtggaga aaagagcgag agaataattct tatagtaaata gttagtaaaa 300
ttaanagaaa taatgggtac tgtcactcac aatataaaaa ctctctgctg ttttagcaca 360
acctggtggt gataaatttt aggtacagaa aacatcngaa aaatcaataa agtgttctaa 420
ttactttaaa tctacttatt gtatgctatt tttttcnat tcnnaaatct caatatccn 480
ttccnancaa ttagttaaaa ctaccctgnc ctgttcaaaa aaaaaac 527

<210> 7877

<211> 613

<212> DNA

<213> Homo sapiens

<400> 7877

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gactttcaaa gtttcttatg ttatatacag atcaatttct ttcaagaaac cagaagctaa 60
agagaacaaa atctgaaaga cccatcctgt ggcagtcact gagctaggag aattttacca 120
attattcaat ctccatagta atcatgagag gtaggaatct caagtccatc ttacagatga 180
ggaactaggc tccacaattt aagtaattgc tcagggtgcc acatattcga ncctaggcag 240
tccccatggt tctgtctgca ccaaatgcct cacctgctgt ggctcctaata aggacgttgg 300
gagacttaca acaaaggctc ttgacaaaac agagctgtgt ntagctttcc caanaaacia 360
ttgctttcta aactctctat ttctctctca aancagaaaa ctcttttaaa tcccctggac 420
aagaaatgga atcttcttca ctgctagggc tcgangttcc atcccaaagc agttttgatc 480
caaacgccn gctccacaan tctgtgccct ctengaacct actccctcat aaccgtggta 540
tcancntcc tgcttactaa tttnggcatt ttgtccggtt ttnaacaaaa aggaagggca 600
aaatgccncc ccc 613

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<210> 7878

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7878

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gctaagctca cttanaaaag ttgggcacca tttaaaanan ttggagaaca naccagggtg 60
gcttcttggg cacagctgga tgggtgctgga anccaggcct gggatttgga naaaaaantt 120
tccgacatat aaaccacagg aggtcaccag cctccccgc atctactctc ctaacagctc 180
aggacagccc cgtcacacta ctgccagccc tgggtgactca ctttgttggc aatttttaaa 240
gccctcttca ttatgtactt cctactcttc agaacctctg tgataagcaa tacccttgcc 300
atacanaacg ctggatctcg gtttactcag cctctccctg tagcgtcaca ggctgtgcac 360
tcacctaggt gagcccctaa aaacagggtt tgcttctgct tcacctaacg ccacgtcttc 420

```

cctcaaatgt gtggtcacca aatgtttgca aaaanggtcc tanccttttt ncttttggca 480
 cattaanccc tttaaaatac ttctgaacta anctttatac tcaaatttcn cccctccnca 540
 aaaaatttt 549

<210> 7879

<211> 605

<212> DNA

<213> Homo sapiens

<400> 7879

gcttcccatt tggggttatc atggttctgc acacggctgc tctgtgtatg ccacatttct 60
 gaatagatac tatgagggtt agcaagcaaa ccatggtggg taccacgttc ggctacctta 120
 cccgatcca agacaatgat ttcatctgca tcaaccactg ttgacaatct gtgtgcaatg 180
 aaaatanaag ttctgtgttt gaccacatcc ttcatggcac caanaatagt ctcttcagta 240
 atcgaatcta acgatgaagt ancttcatca tanaatatga ctgggggggc cttcaaaatg 300
 gctcttgcaa ttgctactct ttgcttttct ccncctgaaa gcttgantcc tcgttcccct 360
 acttgggggtg tcatatccat gtggcattcc aanaattgca tcatgaantc canctaattt 420
 tgccactgca tacacttcc t caggtgaaac actgatnttt ccatataaaa agttgtaata 480
 aatantatta tggaaaaaag aaaacatcct gaagttccac nccccctgnc cccccaagg 540
 ntccaagct cacatcttnt ttnttttgac caccaaaaaa atgccccct ttgaaggccc 600
 anaaa 605

<210> 7880

<211> 517

<212> DNA

<213> Homo sapiens

<400> 7880

ccaaggagta gctttattca gggatcataa acatcacagc ctctcctcaa agtcaagcct 60

aactgctagg tccccagatg tacccaagtt gtctaggact ggcaggggta gcttgtttgc 120
 tgtagtgttt gagggcaaga gactgaccat ccatgcagaa agctggcctg ggctgctcgc 180
 tgcttgccgt ggctttccca cctcattagg agcccgttc tctcgggtggg gagatgctgc 240
 cccagagca tcacctggcc aggtctgagg gcagagcatg gagtgggtcc agactttgtt 300
 tctctgctgc cagccgtaga aaggctctggg ctgtcagatc tcccccaagc cagacagcct 360
 cgctcagctc cttggctggg gccccttagg gaacaggcct gcaagtgtga tgagccaggt 420
 gtgctcatcc aggcagctac aggcgcagcc tctgatatct cactgcggaa gtctatccgc 480
 agggncagca cctggcgcac ttcacagggg tnnnnnn 517

<210> 7881

<211> 436

<212> DNA

<213> Homo sapiens

<400> 7881

gaaattggag taaaagttaa ataagtgaag gaaaaaagct ctccacagtg gaagtgggga 60
 tccaaataag ttgcccagta tgaggctggg gtccgggggt tttatggact gggaagggga 120
 aggaatgcac ttagcctgcg ggctgtcttg gagaaagcgt gattcagctt ggtctgggac 180
 cttggcccgg gaccaatcag gaaccgaagt gatgattcat aggggctatt cagcttggcc 240
 cgggaccaat caggagtga agtgattatt cctaggggct attcagcttg gcctgggacc 300
 aatcaggagc tgaagtgatg atttacagag gctgggcttt tccttttcca caaaagaaag 360
 tgccaacctg aacctactga agcccactgt gttcatgccc cacaagaag aaactttttc 420
 ctccgaaccn nnnnnn 436

<210> 7882

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7882

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ctggaccagc tganTTTTta ttttacagat cataaaacgg atgaaagtat atcacagtaa 60
ttaatgaagc cgttctaatt tagcttgaag aaattttaaa ttcccagtga tggnttgtnc 120
tgctactgac gaactcataa actggagctc aacaaggtaa ccacaaacag catccaggca 180
naaanttgtg aatcttctcc tttcacaatt taaaacttgg ctgggattct caacatatct 240
tatcaataat acatgnttac aatccaaaag gtgcagtggc ttcttcattc tgttccagaa 300
tggatcccggt gatttgaaca actgatcata aacttctagt agtctaggta atggtactcc 360
aatttcattc attgtctgta ttacgaagcc cacatcccag ttcaaagtac aaacctgctg 420
ttctaaaaac tgtacaataa aatctaaang aaaaaaacct tggttttgcc accataaant 480
ttggccaagg aaaacaatct tgaaaactaa aaacctgcnt cctatccgaa gaaacncaat 540
gttcncccggt tcncccantc cttctctatn aattcctgnc caatt 585
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<210> 7883

<211> 576

<212> DNA

<213> Homo sapiens

<400> 7883

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gacagaagaa tattttattt atttataata tcatttttgta aacaatcaca ctgtgcactt 60
ttttattcna caataanaac aatttttttc tagggattta tagcaaacc tatataaagt 120
gaatgactta atacacgant gaagatgact agggtagaat aatttctgaa aatgtcnaat 180
tacagcactt gatacaaaga ctgatgataa ctatctgtac cataaaaatt tacatgccac 240
gaaaacatta atttataatt ttaaataac agtaaaacat agttataaaa agagtattac 300
atttattata aaccagtga ttactcngag aaatatattat taaaacctac taaaaccag 360
taaataattgc aactgaggta aaaatttata agtnaacaaa actatcattt ataagggacc 420
nagaaagtna acaaaagggc agacattttc tgatgactgt gtctaccct gatattttga 480
agcagcttcc acaaagttna ctccataacc tgttgaacc tcnttaccna gggctncgct 540
anacctaata atttttccca atccgttcca ttgtng 576
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<210> 7884

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7884

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antaaaaatg gggttttacc atgttggcca ggctggctctt gaactcctga cctcaggtga   60
tccacacgct tcagcctccc aaagtgctgg gattacaggc gtgagccacc acgcccagcc  120
taaataatttc tttatagcaa tgcaaggatg gcctaacaca ctgcctaaat caaaattgct  180
attcacttca agggatttca ttacctgact agcttttttg ggtgcatatg aacataatgt  240
aaattttatg gctgatcaaa tgtcattact atgaaaatac tccctatgan ctcacagant  300
caggacatca acaatattta aactttcact gtaaacaatga cacantggta ggcactgtgg  360
aaatatattt ggtcctattt tccctacctg agcatgtnaa agancanact attctaacag  420
tgtgatgact ctgcagtgaa aaaaaaatcc actctcccgg cactctgata aaacatgttc  480
ctgggcatag tattcctcna aggaaaatgg tcntaaaaat natctgnaa atccnatanc  540
atcccaaagg tccccctaa                                     559

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<210> 7885

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7885

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gtccccctaaa tggtaggatt tatttcaatg ctcacataca attgaatgag acaaactatt   60
tacataaaac ataagtacaa aaaatataat acaatttata ctgtacacaa tcaggattcc  120
cttgttttgt tccccccaca aatggcagct anagatggta agaaggggggt tggtaggaaa  180
gtgtgactgc aactcagca gtgctgagga tagatcttca gaatgctttt tcataaagat  240
gaatagggtt gagatacana aactgtcaat gcaccaagag cagtaagaga gcacaacata  300
ttcacttctg taataatagc tatatatttt ttcttataaa cgtgtttgtt tctcaaant  360

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gaagcttgga ncagggtgtga gttgccttcc attgattggt taggtgaact ccgcccaccc 420
 ctgctccaac ttccataatt tgatccaatg ccancaggta atgaatttnc catttgccac 480
 aattggtttt cttaacctga atttcaaaaa aanaatgcan cnttcaaatt tenttaacca 540
 ccaatccngg gatacaaacc taaacncnc cc 572

<210> 7886

<211> 583

<212> DNA

<213> Homo sapiens

<400> 7886

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 acaaactgtg ctttaaatac caaacaagta aatcagaaag cttattttct atttaaaata 120
 tatctaagac acacttatat aaaaagaaaa cagaccctcc taacatgtaa cattaccgtt 180
 cgtggcaatt gttctcaacc ttctactctc cttttgacct tagcattaag ctcttttgct 240
 cacttctgag ctctcagtta cagttcttga ggtggcatcc taaccaattt gcactatctt 300
 tcagggtgaag cgctggatnt ttaccanata attgaactcc ccaaaaggcc ccttggaana 360
 aacaaaacca ncctggaacc atanccactg cctggaaggc tcctgttttt ggctccccgt 420
 gggaaacttc catccggggt ggggtgcaggc tcccaaactc aggcttccac ntgtgctttt 480
 tgcaaaaggg cttgcctaag gccagccatt ttccattanc aggactgcca aaaaaatcct 540
 ccaactgaan ggtgcgttaa attcatnggt caaaccaaaa ttc 583

<210> 7887

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7887

gcattcatat gggtttttatt ctgtgcaaat tctactatct gctgagactg aacttctggc 60

aacaggctgg ctacaaatgg ctactttgct ctctgcttgg aacgcactgt tagttaatga 120
 ggtctgagct gccacagaag gcatctgcan agtcaccatg ttaacanant ctttatcctg 180
 tatganatca cgtgtatgtg ataagctatg actctctgag caaggatttt ccaatttgac 240
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 ccgatgtctg ttgagacatg atttatctct gaaagctttc ccacagtcac tgcatgtata 420
 gggtttctct cctgtgtgaa ttctctgggtg gttaatgaga cctgacttgt gtgagcagga 480
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 taaacatgtn ttctggctga aacc 564

<210> 7888

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7888

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 gaagccgagc aaancatggc aggcaagtga ggggtccan ctgcagaggg cagaancctg 180
 gccaaagatg cccaggagc aaatttgtct gagcagggcc agccccaggc agctagaagt 240
 taacacacaa ggatttatgg gtgtggcana atccaagcca ctggtccat anacanatct 300
 ctctcatgct tggtcagatt ccactttgga gaaaatgggc tcgtttgaca ggatggcctg 360
 gtgagggaac acaggtacta acggtaacag gccgatgaac actcaccact ggcattcagg 420
 tggaactcac ctgactggac ctaactccat tacaaggacc tgctcctgnt gccagncnt 480
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<210> 7889

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7889

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aagtcacaa caaacttttt ctgagtattt gattaccttt ctttcaaacc gtacagtatc   60
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ggaaaatctt ctgatgcttt gatggtacat attcttatta atgccctcac attagaataa  180
ctattttcag aacataaaaat ttaggttca aagttttttt caggttcaat ttcacattct  240
tganctaggc atggtactga tggttttcac cataacatac accaatgtcc ttttgtctgt  300
gggctcccat ccagcctggt ggctgaagtc atctacaggt aagattgacc aaacctctga  360
acaggactga aaaaaatggt atcttcagaa aaccagccct cttgtacact gctgctgtga  420
atacaaattg attaactttt ctggatggca atctancaat gcagatcaaa catttaaaaa  480
tacatatnta tctcgacaca attttatctc caggcatcca catgaaanaa cncccaatgt  540
tcaaaattgt caaataagga tcnncn                                         565

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<210> 7890

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7890

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aatttttact cgtttcttta ttaatatana aaaggagccc agggcagctg gaccagtant   60
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ncaggcagga nccaccaggt tctgaggcca ggcccagcct actgccccaa acccctgaaa  180
cggtccctg ggaaaaagct gacanatggg tcaggggtgg attganctgg aaaccatggg  240
gacagatggc agggatagag ggtcatgcan tgggaaccac ccagtggctg ataaggacag  300
ggaacttggt gctggaggct cccattggg ccatgggcan gggcttgcaa atggcctcag  360
ctctgggggc aggtananaa actgcanaaa ctgatgggca tggaaaaanc canacatggc  420
cctggggctg aagggccttt cccctctct tccanaaac ccctttgctc tatactacat  480

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ggcaagaaag aaacccttaa ttttcctac 569

<210> 7891

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7891

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aagctcgaaa atcatacatt aagcatagtt tgaattgtcc tgaagttata ttctgaagg 180
gctgtaacac ttaagaacta ataataatga aaaggcaaaa gcattataac tcacagcaca 240
caagactttt tacctcatct ataaaacgtg agaatgtcaa tgttttattg gctacaagga 300
taaggaagga aacatcagag aaataaatgt gataacaaga ttcacacttc attacaagt 360
attttcctaa attcacaact ttcacatttg gctgagtga agagaaaaac aaaacaaaac 420
aaaacaaaac tgaaaaggga actttcacta cttgttaagt aggccaactc acatgatccc 480
tccaaatgaa aaaattttaa tganaatgaa tttactttcn aactgggaaa atatttcct 540
nnataanttn atttaaataa tttanccctg gggaa 575

<210> 7892

<211> 433

<212> DNA

<213> Homo sapiens

<400> 7892

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atgaaagtca gaagtttagc gaaaattcgg cctaaacagt aataaatgaa aatggaatgg 180

aaatcaaagt tcttaaatan aacanaaggc tgggcacggt ggctcacgcc tgtaatccca 240
 gcactttggg aggccganat gggcggatca cgaggtcagg anatcganac catcctgact 300
 aacacggtga aaccccgctct ctactaaaaa tacaaaaaaa attggccggg cgtgggtggcg 360
 ggcgcctgta ntcccancta ctcangaagc tgangcanga aaatggcgtg aacccgggga 420
 ngcagancctt gca 433

<210> 7893

<211> 579

<212> DNA

<213> Homo sapiens

<400> 7893

atttaaaaat tgcagacttt atttgcattt cctcagcttt tctgctaattg tcttctttct 60
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 agcgtgtgcc acacctgtct aatttttgtg tctttttgta gaaatggggt ttcaccgtgt 240
 tgcctaagct ggtctcgaac tcctaggctc aagcaatgcg cctcctccg cctcccaaag 300
 tgctgagatt acaggtgtga gccactgcgc ccagcctaatt gtcttctttc tgttacaggg 360
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 acctactctt taaaaatttt gtaaaaggca taaatttgaa aaatatatcc tcattaatct 480
 aaatcaagtc attgatacaa ctatttaaca agaccccggc ctgcttggtt tattaacgan 540
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<210> 7894

<211> 404

<212> DNA

<213> Homo sapiens

<400> 7894

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 tgtacattct gtagtgcttg agcaataggc taacagaaaa ttcgaacatc aaaaaaccac 120
 ttccaaagtc catattgcaa aacttgact tctacaggan atgttcttcc aagggtgttg 180
 gcaataaagg ctgttgcaaa acagctatgt gaggcagcca tgtgggagtg accccaggan 240
 aatgctccgg tgcctctgg aaagcanata cacaggacga tggacnaatg tgtcatcttc 300
 taccactggg aagctcagta aacacacnat atnacatgga gacccgccn aacctactg 360
 gatgcttctc ancnaagctc agtcgacct cnnccctgt ttcc 404

<210> 7895

<211> 478

<212> DNA

<213> Homo sapiens

<400> 7895

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 aaatatagcc acatataata cataaatctt ctccctgaa atagagcagg tcctgagcag 180
 agctgactgg gggccacagc ccacccccag ggtgaagtgg ctctgggact ctgccggtgg 240
 aagtgtgga agagcggggc ttggaggaag cccccagtgt ggttaccata gccagagggtg 300
 ggccgaggcc ttagggtag ttaccgaga gggcagcagt gctgggcttt cctcactca 360
 gccgaggctt aatggaagaa ctggtagca ttttttttt ttttgagggt acctcngggg 420
 aaaagganan ganaaggaga gcctntntgn gccttgggtt ccatttgggc attcaggg 478

<210> 7896

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7896

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aatctcggct cgctacaacc tctgcttccc gggttcaagc gatcctcctg cctcagcctc 120
ccgagtagct gggacttcag gcccagtaga gacagggttt caccatgtta gccaggatgg 180
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gcctgacacg tagaccagcc tcctgggttc gcagagggtg catttggtct tctgctctca 360
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tagtggcaaa ctcaagcaac taaagtagat cccaagcctg gtagttcttt tttcttctgg 480
gncttgaaaa ctcatgtcc cgnacctggn atctttcaag gatgtncgg gccattccgg 540
gaantactgn gtggcncac 559

<210> 7897

<211> 571

<212> DNA

<213> Homo sapiens

<400> 7897

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ccttatcaag tagcaattac attgtttaaa aaaaaaaaaa agaacagtac atttctgtct 120
acattccgac aatccaacga ggcgcatgg gtcacatcca gtttgatgag gtgacagagc 180
cagcagtcac catccatggg catggttctg aggggactgg ggagacacag accatacatg 240
atacaaaatg attctgcagc aagtctgaag gagcgagcc tccctcctaa tacataagaa 300
tgaacgtcca ggtagcagag agtaggcgac ttgcataatg agcgcathtt attaaataga 360
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cagggacaaa agcttcctat gcgcgtttca gcaggaatac tctnttact tcaggacttc 480
tttggtttng gatttttttg gcatggattt cttttccatg gtaaagnaaa gccaaacttt 540
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<210> 7898

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7898

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gtatgtgaaa taaaaactcc atgctgaagg ccaaattgac accagccaca agattacgtc 180
tacagtgttg tggaatcac tgcaaagaat gccatctcca aaacactcac caccagcctg 240
gacaaagcac gagagagtac actgaaggga ataatcctgc cctggccccc aggggaggga 300
ccagatggga cctaatagct cttttctact actcatttct atgataattt taagttgcca 360
catggcatat gtattttttt ttaatctaaa ggcagaatat cagtcaatga agtgaccagg 420
attttaatga aaggtatttt ttcattgaacc gtatctattc acatgggata agttttcatc 480
tacccecaac ttntcacttg ctatacaaca catnacttac tatcaagggt ggganaagtt 540
ttttngangg caaccccatn tg 562

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<210> 7899

<211> 466

<212> DNA

<213> Homo sapiens

<400> 7899

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agtcactgaa acacgcattt cttaggccac tcctagaata tgggaatagc tgttacataa 120
aatactgntt tataattata ttaataagaa aaagcatttt acctgttcca agaggggaaa 180
aaagctcctc attgagtatc ctttgtctnt agatcagaat ggtaaagtct tgggcctggg 240
tcttctaccc tggagcaatt ctccccagt caccctccag ggaatgtcag aaaacgtgaa 300
gaactttaga gactagaatc atattcaaac tttccttgaa agtagctata ataaacacta 360
acaccttttt taaaaggcca aattaggtaa cttcttttagg tggatcatcc agcaaaagcc 420

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aatgaacctg aatacaagct atttttttct tttctcaaan nnnnnn

466

<210> 7900

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7900

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aagtcacatg aaagaggctc tatgcatcat gtggcctgtc cgaataaaaa gcaaacatta 120
gaatgccatt tcagcagtta cagtgttgat atgatcaata tagctaattt ttttataccc 180
gtcatatatt tttagaagtc atccgtaggg aagaagcaaa caacaaagac tgcttttttt 240
tagaaaagtt atgtgccaac ttcaaaatga cataactaacc agatatacgc attcgaaagc 300
taggttgaat aggactggcc ttgatgcaca tgcagatgat ttgctttcat aatataaaat 360
taaatggtaa tgtcagctgt attactactg gttctatatt tatgattaat tactagcagt 420
acaactccca gaaggaagga gatggatcca acagcgatgt aagcaatccc caaaaatggg 480
ttttttcctc catcntggaa tangntcaag aacatccgtt ttggccctca aaaaatggcc 540
gggnaatntg aaaagg 556

<210> 7901

<211> 489

<212> DNA

<213> Homo sapiens

<400> 7901

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caacatgatg aaaccctgtc tctactaaaa atacaaaaag tagctgggcg tggtaggcata 180
ctcttacaat ccagctact tgggaggctg aggcaggaga atcacttgaa cctaggaagc 240

agaggttgca gtgggccaag atcacaccac tatactctag cctgggcgac agaggtgggg 300
 aaaaaagtag gacccctgtc ctatattcag gtttttctca catatatgaa cccatctaaa 360
 ttctacgttg ttaaaggtag cttaggttaa ttagtctata cttatttaag accaatatgg 420
 ggtgagatgg attttttttt aaaaatncta cagtaaggnt ttctactttt cttntaatgn 480
 nggaaaang 489

<210> 7902

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7902

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 acagatgcgt gccaccatga ctggttattt aaaacatttt ttgtatttt tagtagagac 180
 ggggtttcac cacattggtc aggctggtct cgaactcctg acctcgtgac ctgcccacct 240
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 cattctttat taccaaagtc ccaataaaaag tagtaattca aaaaaactaa aactcanaaa 480
 aaaaaaaaaac aaccttcaca ttatgnggaa aactggattt taaattaaag ggcctaaatc 540
 cnttttacna agtttttggc 560

<210> 7903

<211> 507

<212> DNA

<213> Homo sapiens

<400> 7903

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 gcaggcagac ccaccagggg tccctgaagg ccagcccttg agaaggngtc taagccaggg 240
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 cgtgtctgcc ggttggtgact cagcaactcc tggaggccgg gcgtggaagt ggtcattctt 420
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 ggaagaaagg caaagacana ncccaan 507

<210> 7904

<211> 496

<212> DNA

<213> Homo sapiens

<400> 7904

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 ctccatcccc atctctttcc cgctagcgca gctgggggaa ggtgcctgct tgccggcccc 180
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<210> 7905

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7905

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agtgaatatt tttaaatttt attaatgaca aagcaaaatt taacacagaa gtatatatac   60
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catacacatc tattacagga atcacaaaac ttatctccat aaggaaactt taaactccag   180
aggcaaaaaa aaaaaaaatt atctccaatt tcccccatga gaatcaaaat tgcaattttt   240
ttaaaaaaat tgcaattttt aattttatac ttttaatacct ttagttttta gacaacagtt   300
aacagaatca attttagata caggtatttt ttaaccttaa tatttaaaag tccaaaatta   360
tatagaatta atccaaatca tatagcaaag aattctgaaa actgaatgca caattgggtca   420
catgatcttt aatgacctgg cactaccatc ctgctattgg nttcttttat gctggcgaat   480
ccaggtatat tgggaacccg nagttttggt caanaatgaa aataggggac cccatanggg   540
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<210> 7906

<211> 525

<212> DNA

<213> Homo sapiens

<400> 7906

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cagatgtgtt attttttatt gttgaataat attccattat atgaatacat cacaattttc   60
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aagctgctaa aaccattttt gtccaagtgt ttgtgtaaac atgtgattta aagttccatg   180
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<210> 7907

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7907

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ggaaa 545
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<210> 7908

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7908

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agaacccgcc ccacaaccaa acattcagat gcttattaag gcaacaaaac aagtgcaga 180
cgggacaatt tttccaattc tagatctaatt tgattagggt atgtctcatg aggaggctgt 240
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atagtagtat cgtcaggatc aattccgaag tgcagcttgc cgtccttggc ggctgcccag 360
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 ccacctaacc ctttaaccct tgacttcata taaccaaacg ataggtccga acctntttta 480
 ncggctttnc ttggctatgn ggnacaaggt gaggttancc nggttaacct taggaagctt 540
 tcccaag 547

<210> 7909

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7909

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 agagccttta cggcaataac ggcctttgtg aatgtccaac ttgggggaca gagtgtgcan 420
 cactttcgaa agttattgaa ccacaaaacc ctttttccca aagcattttg cangcttggg 480
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 gnacctgent aaggca 556

<210> 7910

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7910

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anaggggagg cagcagtcct gatgggtccaa tgagacccan aagctttcag gaaaacctta 420
atcccagatc cctttcagca ttatcttcta aagctgactc ttttgnggac tcaaagctcc 480
ctttttggca agtcgtntnc catttgntgg aacctttccg actgggaatc cccatgtttt 540
tgatggcact ttn 553

<210> 7911

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7911

aagtcataaa acaaatttat tttaaaaatc aatatcttgc atttcagata tacagatgta 60
tcttttacca gcagggtgaaa gcaccttttc cagaatctgc ttccagcaga atcaataactg 120
atttcgaaac tggttgctta ggtcttggag ctctgtcact aagggtgtcca tagctgttat 180
gtcatcagct aattccctgg acatttctcc agttgccaca tctgtaaaaa gttgctttgc 240
ttagataac aagccccgta aattgagtcg aacagaagaa agcatttgta cagcttcttg 300
ggaactggat ttgtttttac tgcattttat ggccacatgt gcaagtccta aggctctttg 360
aacaacttcc ttaaattggtg taatatcttt ctcccaacaa ttggactggg tgtcacactt 420
gtatgccttt gagaagcctg gaatgccctt tcattttcat tangcttttc actctggcca 480
ttttcatata cgtgggcac cagcctccan aattctccat catttggcac tcttgaagca 540
ctctggccaa ataactccgg cagcttct 568

<210> 7912

<211> 579

<212> DNA

<213> Homo sapiens

<400> 7912

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gggacccaaa atggctgtaa ttgcagaaag gatggagggg tacagtgtga tgggagggaa   60
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cgtcccagtt ccttcttagc aaagcanaaa tacaactcct ggccacctta cagggcanaag  180
gtgaggcgcc aacggaatag caaatgtcaa agtttcactt aagcccaatg gaaaggtagg  240
aggccttgcc ttcttgctcc tttttggctt tctcctgggc cttcatggct gcgtaatcct  300
gggccatggt ganaatgtat atatgctccc ggctgccaat ggccttnagc aggcanagga  360
gggcggctgc agcattccga gcaaaganag tgtcgaggcc atcaaacacc actcctcggt  420
agcagtcact cagcagcctc ctctccttcc ttcatggact gntctatggc accctgatgc  480
aaactnacan gccngatnc ctgggaaggt ggtgcttggt ggcccaagtt tcagcacaat  540
ggagtcatgc tncagcagctn ggttgtaaac ttggncccc                               579

```

<210> 7913

<211> 609

<212> DNA

<213> Homo sapiens

<400> 7913

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gttaaccttt attaaggtat aatttataaa ccataaaatc caccattttt acacacacac   60
atcaacgatt ttttaataaac tgatcacgta gtgcaactat tgccataatc tagtttttagg  120
acatttccat catctctgta aggtaccctg tgcaatttat agttaactcc catttccact  180
tctggcaacc actcacctca tgtctgtccc tacagatttg ctattctata catttttatt  240
attattctgc acatttcaca taaatgggaa catatactat gtggcctttt gtgcctggct  300
tcttgcatth agatcagtat tttctagggt caccatggtt gtggcatgca tcgatacttt  360
attccttttt atagctgaat gtgaccacag tatataccac tttggccatt cacctgctga  420

```

tggacactac agatgcttcc atcggagcaa aacagactca tccctgctga aggacaatca 480
 gagtcatccc cgagttatct ctgctgaaat catccctgct gagttaatcc ttgcttangg 540
 ggccggngct nagtcattcc tngttggtca tgtctgttga agggcaatgc ttngcattc 600
 ctgntgggg 609

<210> 7914

<211> 607

<212> DNA

<213> Homo sapiens

<400> 7914

ctacaaaaaa tgctttatct aaaaatatga tctttttaaa aaggagactt ttatacacac 60
 ttactttaga aacagtcaaa aacacaacag aatcaatcca gatttagaaa tgatgatttg 120
 taacatacaa tattggtatg ctgaacaaga cagtttaaat gtatgattct tttgtccct 180
 tcacatttca ataattcaca ttgtttaaaa ctagtggttg ggactaaaga aaaggtcata 240
 tctgaatcct ttccccctca gaaatctgtc acccttctgg gcagttacag aaatggcagc 300
 agctaggcaa tgtttgtatt tctttgggtg cctctgtgtc aaaaaatata tctccgcttt 360
 tattcttttt ctatgaaatt tatatttatg tggctatagg gcctggtcgt atgtcccacg 420
 ccttttaaaa tctaaatttc taaaaacaga cactccgtaa gggcaaggag catacactgc 480
 tatgacctca ctggactcag agcttaatgc tcttanggtc tcancaagag acatggattt 540
 gaactttcag tagcacttca agctgntntn aaccaacctt ttagcacgg nagtgaaant 600
 tttcaat 607

<210> 7915

<211> 599

<212> DNA

<213> Homo sapiens

<400> 7915

aacaagcaag gaatgtttta ttgtgtacat tttctcaaaa aaaaaaaaaa cccacaaaaa 60
 cagaaccac aaataggagc aaagaacagt tttctagcat ctctgggata cacagggcac 120
 catatcttat agaaacatag ctagtacaag aacaaagtgt actaattaac attaccctt 180
 gcttccccag tcaaaaaagg ctatagagaa aaacacttta aattgtactc taatacaaat 240
 ttgttgaca attaaacttc aacttactca aagagttatt gtattgtaaa ctgcagaaaa 300
 tagaataggc attcaataaa tctgctcaca attaacaatt aagcaataga cacttgaata 360
 aatatagcat gtattactta tttgttaagc cttacactta cgatgagcag atggtttatc 420
 actatatagt aacagatttt ttttacactt taggagatcc atatccaata acggaagtag 480
 aagtctttaa cgaaaactga ttttagaaaa atatctcctt gggctgaact actatgggaa 540
 ttattacata tttgggtcag ttcccagttt aaaatatagg actacaactg gattnttnt 599

<210> 7916

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7916

cagaacaatg tatttgttta ttaaataaag attgcttggt acacagaaaa ttattttctt 60
 taattatcat acatagctct ctttcacatc aggcagtana acactgcatt tacttcatct 120
 caggatactg gatacaagat taatagtcag tttgtctcaa aatatgtcaa tgtgttctgt 180
 ctgaaaacat gcagagggct tggagtaatc atatcatttt acgaggtgct ttanaaaacc 240
 aagctacagg tcctgaatac attccaaaaa tcctaaataa ttaccaacag aagagagAAC 300
 tnttgccagc cagtacactc aataaagaag taaaaggtg cagacaatgt aactttacca 360
 ggaagcttaa ggggtggccc agcttctcgg caggagtcag caggcctggc agcctccatg 420
 gctggcgctg ctgtgtggaa acagggccat ggtcttcttg agctcctggg agctccagtg 480
 catctgctcc acctcgntc tgtgctgcgc ccgcacctgg ctnacttctg cacangntc 540
 antgggctta ccaagganct ggggttttct tn 572

<210> 7917

<211> 509

<212> DNA

<213> Homo sapiens

<400> 7917

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aaaacaaaa gcagtggaca tttattcctt aacttttgtg caagagtgtg aagatgcatt   60
tgaaagaacc tgatggctag agcatcagcc atggcittca ggttggccta gtttacaatt  120
agggaaagaa ggggggaaaa aggtaacttg cctagtccac atgaatgatg tttctggcaa  180
acacagttgt ttacaagttt caagctatat ttactaggg tcaagggaag acttcaaaaa  240
gccacataca gtacaattta aaattgtgtg aacatcctgc aaatgttagt gcaaagtaat  300
tatgtanact ctcaaacaa gactgtgctc ttggttccca ngtttggta atgttgctct  360
tttataatta caatcacaga agcttaactt accaaatagc aatgcctctg tgttttatgt  420
cctatgtacc aagggaatgt cacaaggttt ttatnaaat gcagcttagt tcattnatna  480
ancanattct tattgaattt aacaatnaa                                     509

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<210> 7918

<211> 532

<212> DNA

<213> Homo sapiens

<400> 7918

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acttattcac tcaacaatca tttattgttt gtgtgcaagg cactgtgtta ggtgccaaaga   60
gcagaaggaa gaagatacaa atatgaatgg gcatattctg ccctccagga acatacaatc  120
taagagtgat taattgcata caaataattg taataccaga tagaatgtgg taagtgccat  180
gggagatact actataggaa gctttcttag ctcttaactt caaagaccag gtcaggtttt  240
gtcctactgt agtctgtggc aggcatgaaa aggagctga ggggacctgc taggctttga  300
tgaactgagc tgcattcttg atttcgttc ctcttcttcc tcagccgagg ttacggtgat  360
tagcaagggc agttgctacc actgaaagga tagaaggaaa aaggcaaggg aaaatgatac  420
gtactaagat gcacatagga gcactcnata gtaagtctat ggaccgggcc ctgggggtact  480

```

gccattatan aggggaanggg aanaggattg gttanggana nagaacactt gg

532

<210> 7919

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7919

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aagcattatg tattcaacac actgatncct gatagcatgt caggaaaaaa gaataggcaa 120
tgcagtttaa ggggggaaaa actganaagt cataactact ccaaagatgt gcaggaaacc 180
acaaaagaca tggacctgct tctactataa aaagaaaatg aagcatttct ctgggggtgc 240
tataccaact gtttcagccc attgtagtct tgcctctttc agggcttttag ccactatttc 300
atttcatgga aaagcagaca tctcctaaca aacagagtga cattaccaaa aataaagagg 360
gttctcagt gagaagcitta ataaagaaaa atatttacct atgctttgca caattttctt 420
tttttttttt tttganacgg tgtctcgctc tgtcgccagg ctggagtgca gtnggccncg 480
atctcgctca ctgcagcctn caccgggccc gggttcacgc nattctcctg cctancctcc 540
tggaaaactg ggattacagg cacgtgcccc atgn 574

<210> 7920

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7920

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aaataaatat tcttctgcac agagttgaaa attattgtgc atcttgcagg tgaagtactt 120
tcattggatt gtatttccat ttgttgaggc accggcaaata aataaaattt gttctaattg 180
tttctcaagc tgtacaaagc tccaagggtca aagctcccca gaatacagag gaatatatac 240

aagactgtct tctctgtgtt caccaaataat gggattcaca gtgagtcatt ttaataactc 300
 ctacgccacc ccctagccga cggttaattca tcccgccata taacctccat gtattggcat 360
 caggatcaaa aacttctatg gtcttcaagt atgttgtgcc atcaaacct cctactgcca 420
 tgagctgtcc attgaccact gcaggccaac tccactacgg cgtgatgtca tggccaccac 480
 tggagaccac tggttgggtc tggggttgna tctcttagca ctgntcaact ctgtagggca 540
 tctttanctt ctacagenta gaacatgtcc tggnatn 577

<210> 7921

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7921

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 cacgccattc tcttgccca gtctcccgag tagctggcac tacaggcgcc cgccaccatg 120
 cccggctaata tttttgtatt ttttagtanag acgggggtttc actgtgttag ccaggctggt 180
 ctcgatctcc tgacctcatg atctgcccgc ctcggcctcc caaagtgtg ggattacagg 240
 cgtaagccac tgcgcccggc cggccatcag ctttaagata tcttctctga cagcagagca 300
 tccaaaagca gggaatccac cccttcctac aaggaggga ggcctggaca ggacttctct 360
 agacttctct aatctctctc tctctcacac acacacacac acacacacac gcgtgcacac 420
 acacacacac acacacactt catcctaaaa tgggcattaa gacagttgtg atcacaataa 480
 aaagttttgc ttgatattaa accattcttc ccatatntgc agaaaaatta gcaagggttaa 540
 taaaaagctt gntntgggat gag 563

<210> 7922

<211> 580

<212> DNA

<213> Homo sapiens

<400> 7922

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gtggagatga caggtatgtt tattaccctg atttgtgtga tggatcaaa ggtgtgtgca 60
tatagtcaga cccatcaaat tgtattcatt aaatatgtaa caactgtact tctataaagc 120
tggtaaaaaa cactgtacct gtttggtttt acttcaacgt ggctataaga aaatataaaa 180
ttacattaca gcttgcattc ttttgtata gtactgtcct gctcaagatg gattaacagg 240
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cttgtcaccg tatgtctctc cttttatcaa ttttcatat tttgagaaga catgaacttt 360
ttgaacaaag ataacagaaa atcattgtca atagttaatc taccagagag attcagaaac 420
cttgcatact tggttttcag gtcttggttg agagtictaa caccgttgaa aaatctcaag 480
agtaacctgg taatgatatc ttcattgaat taaaattaca ttttgcttta atctgatagt 540
cctcttaatn caaaaggnca catcaagtta aacaacatcc 580
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<210> 7923

<211> 581

<212> DNA

<213> Homo sapiens

<400> 7923

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ctggtagaca gtacacttgg gaattatact gcaccaggca taaagagtaa gttttctacc 60
acagggacat tttgtattca gaattcaata taaatatttc tagtcagaca tttccatggc 120
tacagatatt tggttccttg atttatatgc atagaaagaa acagttgtca taactgtaaa 180
aagcagtact taataagtac ttttaaataa ttggaacagt tttcctttaa tattacaata 240
ctacttattt attggtttgg aaactaggtc accctacatg atgttttgat ttttctcaaa 300
ggcatcatga gtactctgct tattctttca ttcttgattt tttagccttc tagttgagtt 360
agggaccatt ttatcagaaa tcattttagc actgtaataa gaaaagctct gttaagggtta 420
gattatatac cataatgatt ttcagacttc tttttataaa aaaggatatc ggagactctg 480
aacaggcaca tgcatactca gggggaaggg aacaaaacat ggaggagtct gccaaagcac 540
aaaacttnc tctggnctc actggcttca aataaatacc a 581
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<210> 7924

<211> 578

<212> DNA

<213> Homo sapiens

<400> 7924

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gagacggagt ctcgtctat tgcccaggct tgcattcagt ggtgctatct cagctcactg   60
caatcactgc ctctggggt caagcgattc tcctgcctca gcctcccaag tagctgggat   120
gacaggtgcc cgccaccatg cctggctaatt tattgtatct ttagtagaga cagggttttg   180
ccatgttggc caggctggtc tcgaactcct gatctcaggt gatccacctg cctcggcctc   240
ccaaagtact gggattacag gcatgatcta aattctttat acccttcaag ggcaggaaac   300
cagtatctct gaaaagcttg ttgttttaaa tacaattgaa catttcatct ttccccccac   360
agtaatcaaa gcaaacattt tatcattatt attcttggtt tctcaaagta aattccagga   420
atgtaagaaa gtctgacttg gaaatattac atagaaaaag gctgaattaa cacattacat   480
tttttaagtt ttctcttgn aagtatacat tgacatctac ttatctgata gcannactgc   540
tgggttttaa tganttttgg tttgggtttg gttncctn                               578

```

<210> 7925

<211> 579

<212> DNA

<213> Homo sapiens

<400> 7925

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ctagtgtggt cagacactgg ctttttattt ttaggataag aaaacaggca tattctttgt   60
gggtccattat cttagagcca tacttgggca gcatttgaaa ttccacctta accacagaca   120
gggctccagg gaagtggaga tgtaattctt acaacaacag ttctgatcat ggccatgggt   180
atgactttcc aggtctctgt ttcaagtggg gccagaatgc aggagccggt gggcagccct   240
gaggggttgc cttggccgca gcctctgtgc acgctcttcc tgggtgtcctc ttaccgggta   300
gctgtgcgct tgttcccggt agaacagcct gcttccagag tgcccaggag tgctggtcag   360

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ggacagtgcc cgtgaggctg cagaggaagt ggggtccatg gcccacccat cntccctcg 420
 cagcagccct ggccagtgtc atcctgggtg aaaaagggtt gcgcacagga taggaaggaa 480
 ccacagtint gnttactggg cttacaaccg gttgcagcct gggttcttaa aatgganttg 540
 gaaggnaaat cctanaattt tggaaantgg gcttctggn 579

<210> 7926

<211> 587

<212> DNA

<213> Homo sapiens

<400> 7926

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 aaatctccac ctcccgggtt caaccgattc tcgtgcctca gcctcctgag tagctgggat 120
 tacaggcatg tgccgtcaca tctggctaata ttttgtactt tttagtagag atgaggtttt 180
 gccatgttgg ccaggtttgt ctcaaactcc tggcctcaag tgattcacct gccttagcct 240
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 caggctataa actcaccaac tgcccaacca cagatgttta gcctttgggt tctattgtgc 360
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 gtccctacct tactatgcaa ctttggacaa gtccttttac ctcttgggcc tgagtttctt 480
 cactgaaatg aaanggctgg actaaaattc taaggtcttt ncatatctag gattingtacc 540
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<210> 7927

<211> 578

<212> DNA

<213> Homo sapiens

<400> 7927

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aaaaattaca aaaaatgact cttaaaaata gaaatagctt ctcagactct tgggaactac 120
 ttttaagcaa ccaaggagtt agaactcaga tggttttctt ctttgtaaca gcaacaatga 180
 ccacggctct gtgccatggc aatcactgct gagtgtcttc tcctacaatt acacaggccc 240
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 cattaatgca gaacctgtgc agaaccacca tcagattctc tccacagcgg gagacctggc 360
 gctccatggc caggcgaaag tcctccttca cgcctttggt gatgcctcga gttacagtgt 420
 ggtgcttgat cagcattcct tggatggggg aagtaattcc agatgaattt tcccaccttc 480
 ctgagtctca agtaggcaaa ttccttcagc atatcataat tgtaccgaan tgaaaaaatc 540
 tcatatggna attccttgtg gcaaatttat tggcagct 578

<210> 7928

<211> 580

<212> DNA

<213> Homo sapiens

<400> 7928

acagagtgac acatgctact taaaagaaca acaaaacagg gagaagtgag aggcagcagc 60
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 cgtgtttttt gtttgtttgc ttgtttgtt ttttagatg gagtttcgct cttgttggcc 180
 aggctggagt gcaatgggtc gatcttggct cgttgcaacc tctgcctcct gggttcaagc 240
 gattctgctg cctcagcctc cggagtagct gggattacag gtgcgtacca caacgcccgg 300
 ctaatttttt gtatttttag tagagatggg gtttcacat gttggccagg ctggtctcga 360
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 gagccaccgg cccaactgnt ccttccatgg ttttgcttcc taccantnt gatgaacccc 480
 cagttttttt ttttttggtt ggtggttggg tgaantcttg gnttttttg agcttccnt 540
 tgggtaactg agtctttcca cttaaggggg aaaggatgat 580

<210> 7929

<211> 580

<212> DNA

<213> Homo sapiens

<400> 7929

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agacacaaag ttggatttat tttacaaga tacaaaatgt aaacatggca aaataaatag   60
ttaaacaag tgatgcagga tcccatttca tgctcatgat cccattaaag aattattttt  120
taaaatccat tcagttgcaa attcaagtgc aaaagcatga tgatgaatat ctactattca  180
agtaacagaa ataattattga tgatacaaat aaactatttt acaaggtagt gattttccca  240
attttacaaa atatacatca tatatggatt taacatccaa tatactatag tccatttagg  300
tccattgtta cactctgtga tccacagagt gttgcctttt gcattcagct ggaatatgaa  360
tgactgcaca ccatcagcac aggtcagagc cacgtgtttt angttatgtc acttccatag  420
ctactggtgt ctctgctatt ccatttaagc ccaatctttc tggntcgtgg gtctctcttg  480
ctatgctgct gatggcactg ctgggaagta accttggcac tctgtcctac tggcagcact  540
gnggcaaggt ttaaggttgt ggcnatgggc ctgaagccct   580

```

<210> 7930

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7930

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gcaagctaac aaaatgacca tgtattgaac tgagtctccc attcttttagt ttttaactct   60
atttccttta tatggggtaa taatcagttc atgtagaaaa taagttatcg acatactttt  120
ttaaataaca gcctgggtat cttcagcttc acgaaacggg tgtaacagtt ttaatcggca  180
cgcttgagag aacctagcat tcaatctgag agcttggcac tcgcctcatg ttcagggcgt  240
gacgatgtat ctcttgcatc tgtctgatgc ggtccttctg ccacatcagg ttttgaggca  300
tagggtatct ctgtgtgcca tgcaagtacc ggtatgggat cctcacgtga caagcagngg  360
ctctacaacg aggttgtggc ataggaggan gaagcatcca cctcttcctc ttncgacaat  420
atcnggtagg cttcttttccg atactggtta tcantatcat tactgntttt ttcagcctnc  480

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tataattgag acatcatntt ttgtaatanc aaaaggntgg ttcttttaan gcttaaggac 540
ttcttggagg caagctttca aggntcttat tn 572

<210> 7931

<211> 588

<212> DNA

<213> Homo sapiens

<400> 7931

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ataaatagca tatgttttgg gaggtggtgg gggggcacag ggcaccagga gagggaagat 120
tcgtgttttt acagctgaca tgcgcttgg gaaaaagtcc cagggaataa cagtttggat 180
ggaggagaaa gaaaaaaatt ttactgcaac cccatcttgc ctagcttgct agcatctcct 240
gctgcctgga tattctggcc aaagtggtag gtatcacctc aggtcacaaa ctgccaaata 300
ggaagacgac acttacagaa gttattaaaa ttgacctga aaaacaaaat aaaaatatag 360
attagccagt gtgttcaagg agctcttttc ttgccctaga gggaaagcag angctaccct 420
gctaaggtag caggcagctg ggattcaaaa tgtcccanga ttigaangca tgccctctta 480
aaaatcactt ccatcaatgt attcacagca gaaccngtga cttgccangg tttgtgggga 540
tttaggaagg gcaatggggc ntttnttcc cccaaaaaga acaaaagg 588

<210> 7932

<211> 538

<212> DNA

<213> Homo sapiens

<400> 7932

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acacatcaag tactggtcca atcttatatc aatctattta caattaaaca gcaccatggt 120
tttcccacct aggttagtta aacatgccca gagaattggt attcaaagca tatgttcctt 180

taaaataaaa taaactctta aaaagagagc tcaaatcctc aacaaagaaa gacctttttac 240
 caatcgatat catagatatt gatgacatca ccaaattctgc ttaagaaaaa aacagtttta 300
 aacacttttt tccagttgac aaactttgag aagtgtctgt attcgatgtg gcacacaaat 360
 gaacaaaaac tttgatgaca ggagcaatat actgattttac cctaatatct ncacctctaa 420
 acataaaaaa aatctccttt gggattaatg ctgnggnctt cacttggaat tagattcaat 480
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<210> 7933

<211> 598

<212> DNA

<213> Homo sapiens

<400> 7933

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 cctgggaata aaatctccct ttgattaatg tttccactt ttaatgcaaa gtgcaagagc 180
 aagggtcttc aatggatgac acagggtgga aagtcataag ctcttcccc acatcccca 240
 acttcattcc ccacacacac cacagatagt ttatgagcta attctcaact ctcttggtgc 300
 acgtatccag gactctattg aattatttat gaagtcaggc ctcaattccc aatagtttaa 360
 agtaatgaaa aagaaagata tgaggaaata cattcaataa gcaaaaataa aagaactctg 420
 gaatctgaca tatttcatgt tatgaaagta atggctgaca taatgtcang ggcatttaaa 480
 ggtgagttag taacctnca aggaggatca gactgnttct ggccgngct ttccagaata 540
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<210> 7934

<211> 581

<212> DNA

<213> Homo sapiens

<400> 7934

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cacctgtaac actgacttta tttttaagtc tgaaaatgtc ttgggaaagt tttaaaaaa   60
aaaaaatcaa cagaagcaag ttatgaaaat atttgaccag cttcatcttt ggttatttct  120
tattgcagct ctgtaaggac agactgttcc caaagctcca gccatggcag gaagggaagc  180
aatcagtcct ctgtataaac catttaacca attgaatgta tcacatgttg ataaatacat  240
agaagcaggc cctagggcct acaaaaccag cccactccc aaccacaagg ttgaaagtct  300
tatggggcag aacattaaga ctccctttata aatatgaaaa tagattaatc aacaggaaaa  360
ggctcttgaa taggttagct aagagccatg accaccacgc tgccttgctg tccccttgca  420
tagaaatgta gtgacgtggt ctgaccatgc agtaagtgc aacagcaatt actcaaagt  480
cttanaatac tggcaagaag caccatcat tcanagtctg gaaacagcca tgaccgttac  540
ggcctttgac aagttcctgg tccctcagaa cttattgccc a                        581

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<210> 7935

<211> 580

<212> DNA

<213> Homo sapiens

<400> 7935

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catgcacaca tatgtttatt gcagcactat tcacagtagc aaagacttag aaccaacca   60
aatgcccatac agtgacagac tgaataaaga aaatgtggca catctacacc gnggaatact  120
atgcagccat aaaaaaggat gagttcatgt cttttgcagg gacatggatg aagctggaaa  180
ccatcattct cagcaaacta acacaagaac agaaaacaaa atactgcatg ttctcactca  240
taagtgggag ttgaactatg agaacacatg gacacaggga ggggaacatc acacaccagg  300
gcctgtcagg gagttggggg ctaggggagg gatagcatta ggagaaatac ctaatgtaga  360
tgacagggtg atgggttcag caaaccacca tggcatgtgt atacctatgt acaaactctg  420
cacattctgc acatgtatcc cagaacttaa agtacaataa aaacaaacna aaaaaacagc  480
taattaagcc cttatattct gnaaatgnag ggttatattg ntgggacaaa ctnaaaaaca  540
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<210> 7936

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7936

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actgtaataa aagcagcttg ttttctgctt gaacaatagc tctgagagca agaaggctgg 60
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agtggccggt ttcctggcag ctttgtaa at ggactctaac ctcagtggaa tctgggcccc 180
ggctggatca ggaggcgacc atatggcttt tcttgtttca cgtgaagaat ctgttgcgct 240
gagagcacca ggagcaggta gaagaccgg gcagccatcc tgcgggggct gagaggtgac 300
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actgcttcca gtgagagcag ctcgagctct gggggcagca ccaaaggcat ctccatgggc 420
acctcangga gttcaggcac cacggcaatg caggagcttc tggcgcttc acctcagcca 480
ggcccaccgt tcttctggtg ggatnagctg atccggactt cttctcttta nctggcttta 540
nggagactnt aaagacccat aagggaaca ctggctc 577

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<210> 7937

<211> 582

<212> DNA

<213> Homo sapiens

<400> 7937

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ggggagaaaa ttaaacctta tttattttta aagtcaaacc actaggaaaa tatatcacag 60
cctggaaaca gcaaacggac aggctatatt ataatttcaa gtaataagtt ggtgaaaatt 120
caacgaagtt gctatcaaaa caataaggtg ccatgctggg gcaggaacac tgccagctgc 180
acaagcccca ggcaaaaatg gtatttggtg atgggggctg tctctccttt gctctaaggg 240
agtcagctca tcctagccca agttgcttac ttttctccc ttgaatttcc tgttgccagg 300
ggtttgtctc aattgggctc tgtaattca gggggctaag taggcaatgc taggtgtagg 360

```


ctttcattcc atatgttcta ataaaaccag gttttcccaa atccagtact tcattttactc 420
 tgttgtaatc aagtagccaa ctgctcctct tttactgggc attcctagat ctagtatata 480
 tcacaatcaa aacccccctt ttttaaaggg gaaagtggta ctgcagaatg gctggcantt 540
 tgtacacaca ggcttanggg ccatcancca gtaatctgct tc 582

<210> 7938

<211> 601

<212> DNA

<213> Homo sapiens

<400> 7938

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 tcttaaggat gtgttaccag gtggagaaaa ctaataaatt atacaatcta gcttcgctga 120
 aaaagcaaga tttcaatata tacttacaaa aatgaaaagt gctttttcat ggcaagggtta 180
 gatacctgca aaagactgaa atagctcaac ttttccattt tctatTTTTT tccttggAAC 240
 tacttgaaga agcactgttt ttcacaatca taataagagt aattaaacag ctagaagcaa 300
 atttagccac aatcctattc caacatacaa acatgtttat tacaacacag taattccttt 360
 aaataatttg tcaacataaa tatgtcaa atgggttttaa atcatttctc tccctgttcc 420
 ccgacaaaaa aagtcctctg gcgctatgag ctatatattg ctgntcactt actgntgaat 480
 ccaaactagt gaaatgatac cgggtaacta ttacncagag cattgacact aanttgaggn 540
 ggaataatga atanttaatg gacctccttt aagcnggaac ntatactttc atgggtgccc 600
 t 601

<210> 7939

<211> 601

<212> DNA

<213> Homo sapiens

<400> 7939

agtttttaag gagattttatt tttcgtacac aagtgatcaa tttgtcacia tatgacaagt 60
tattgataac aagtatttta acttacaggt atgataaaag tctaacattt acaaaatggg 120
gatattacta tataaaaaat tgaaagtatt agtttttatg taaaatatta gtttcttcat 180
tctgatacag tgctaaactt aatgtaaagc caaacttcag gacctactct agacataaaa 240
taattttcat ttccatgtct ctagaatcta aaatgctaag taaattttct ctattacttt 300
tcgtcaaaat aacttaaagt attaaaagac aacctaatac cagtaataac atttttcttt 360
cctaaaaaat atttggtatc tgatttaaag acatgaataa cacaatagta acaacttaaa 420
gatcgacaag atataactaa aatgatattt gggcatcata tctacataat aattgngaaa 480
cacctggttt cctaataact gagaaccatc agtaactttt tcataaaagg acttcatagc 540
tctaaatatg gaatcaaccc tggaagccga acccttacat ggcaaacacc tacgggggta 600
n 601

<210> 7940

<211> 592

<212> DNA

<213> Homo sapiens

<400> 7940

gttttcatta tgtttaatgt aaatactatg gaaaacatgc ataattacta ggcaactcct 60
ttgtggaaaa aaaaagtctg catgcttcta aactctgcta catctgttct gtgtaaaaca 120
tttctcctga taattttgtg ttactttgtt caggctcttt gtagcagctg tgtactgcta 180
atgacttccc ttattagtca gctccagtac tttcttgggt ttgaagcata tagtgtagaa 240
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aggtaggata agagtgttat ttctgctact gctatttttc caaagaagga taacttttaa 360
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ggctgttatt agggttattt cagcactgag tcttttagagt caatgcaccc tcacaattat 480
aaaatgaggc tataaggnc t ggaagcatat tgcaaatac ggtagagatt atccttenta 540
naaaatccct tcttcttta gactaagnaa atttttcccn ggctnaagcc tc 592

<210> 7941

<211> 601

<212> DNA

<213> Homo sapiens

<400> 7941

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ctttgggttt tgttttgatt ctgtttgacc cacttaacta aaatgatact atagatcctt   60
caaaagcaga atcatgccag ttacacatct caaatccttt gatctactta cttcgtactt  120
taagaggtaa atttgagaat gaaaatggga gactccaatg caataacacc tacataagga  180
aaaacacaca taaacaccca cacatatcc ccagcctcaa aactaaagca aggtacacat  240
ttacatttcc aaaccccaaa gcctaaactg tccaggaaaa gattctagct ttgtgggctg  300
agtttatttt gcttctggtt ataaacaaat gtagtgtata cacacatctg tccaagaaat  360
cttgcacaag gtggatttta catgggggtat catgcacaag attaaaaaca agacccaaaag  420
gtggaaattt taaaagagga aaatataaag gctccaaggn ttaactgctc tggggtagaa  480
aagatcacat ctggtgactg aaggatccca gaaaggncca aaacgtccat aaatatacctt  540
ggnttcgnac tggcaaagta gtanttgcta ccngaattcca actggggnaa aagtnccctgc  600
c                                                                           601

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<210> 7942

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7942

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agggtataaa aagacagatg caaccataca ttttaattttt aaaaatggaa tgtatcttac   60
ataaggattt tgtgaaaaat cttataccta tctgagtatt acagaagatg catatacctt  120
ccagagctca tggaggaaag agtgtataaa caattttgat aaggagtga aaaacaattt  180
gaaaatagtt taaaagaga gaatcaggag gcagaaaaag cttcaagagg catggtcttc  240
agaaattggt ctggaatgct gtttcacttg tatcgatgct atgttcctgg ttcaatttct  300

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tgaactccac cacttgggaag aagacgtgct caaggatatg tttggcatcc tgttggctcct 360
 ttggtagttt actgggttac tccaagaata tcaccacact tcctgacata aaattccagg 420
 tcttcttcag tacacttatt gggaatctga ccagcccgt gccttcttaa aggaaaaccg 480
 tttcatctaa atcaaaatag cttcngaagg aggaaggggg taactcccgg naacctggga 540
 nggaaaaacc caggctg 557

<210> 7943

<211> 506

<212> DNA

<213> Homo sapiens

<400> 7943

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 ctgagaagtc ctaggcaa at gcactttggg gtatactaca gtgttccttc agtctgcaca 120
 aagattaagg taatttacag tcaatctgtg aatgaatgtt gagacaatgt tacattatgt 180
 gtctgtacaa ttaattgtcc ttaaagagat aaccagaatc agcttttcta ctgtattttc 240
 aacaaacctg actaaccggc acttttgctg ggagatgttt gtcaaagatg ctgtaagatt 300
 ctatacaatt aggaaatact cagctttaag agtattttct tatcttact tttttagtta 360
 cagggtgttt gtctagagag cctattgcag tatgtttcca gaaatgcagt cccaaatgtg 420
 catactctat attggataca aataaaacaa aattatcagt agtataaatc ttacngcatn 480
 gnttgcnaaa antgcatgcn aangtc 506

<210> 7944

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7944

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atcgcagcta ttaattcaca gcatagaaaa gtcaaagcta tagcaaaaaa ttgctaattct 120
gcacaacttt aaaaaatagt tcagtagcatt tttgttataa aattcattta caggagggtta 180
ttcacatgta cttgtcaaatt ttactcctga taattcaca aaacatacaa ctcaacaaac 240
tgtgcacaat aaatccaagg caaattatat acaaagaaac aaaacaagct ttttaagtagc 300
acatattcat ttgaaataac taatattgaa agaagacagg gaactttctt ttaatgccat 360
ggcaaagacg aagcgaagag ccacacttca caccttgtaa aaagaatagc cctgttcaac 420
aacgctgcgc tgacagccac atcaggaggg gccacggtga acacaggaaa tggctttggc 480
aaatcttgtc cactggaacn agtgaaagt caaagtaatn gggaagncca ctgganttcc 540
tntgaaangg cngcaaggaa 560

<210> 7945

<211> 542

<212> DNA

<213> Homo sapiens

<400> 7945

acaaatacca aaagatttat tgtagacaat tttgttacac aattatacac attatgatac 60
acgtttgaaa cattaacaca cgtggagact gctaaatcat ttaatatcc ttttgcaaaa 120
agataatttc tttaggctgt gatacctgca ataaccaatc tgttctcatt tggatcagat 180
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cctatcgacc ttgcttatag cagttcaggt atagactatt tgagccttat atactaaact 300
gttaagccag tgcgtgccct atgccctgct gagaatagat tccttctgta cttgcagccc 360
tcagatgctg aattgatcaa tcaatttttg agacggggct tcctctgtca ccagggtcgg 420
agtgcagtgg tatgatcttg gcacactgna accttcggct tctgggtcaa ggggatcttc 480
ctggctnaag cttccgagta gctggnanta cnggnacaca ncaacatggc caagttaatt 540
tc 542

<210> 7946

<211> 516

<212> DNA

<213> Homo sapiens

<400> 7946

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aatgaggag atttaatgnc ttacattat acatttcaaa ggaacaaaac accctttatg 60
aattttctca tggagatagc atttacatca cagagctgtt gtgaaaataa aataagaatg 120
tacagcacac ctggaatata aaaaacatcc caataactta cttggagccc cgcagccatc 180
catccctcac atataaatac aatgaaccag atgaagatcc gtgtccgtgt ccatgacagc 240
aatccattca gaagatcaaa gataaatagt ctaatacacc aatttctgac atttgcttag 300
cactgcagga ctcatgaaga gctgccactc atattatctc atttaatccc tacaacaaaa 360
accaaggctc aaggaggtga gtccttgagc aaagaacagt aacagactcc acaggtttgc 420
aaaacagcca tatgacagag ggctgaggaa gcctatgata gtaggctgag gaagcncang 480
ttgnactgga gctntgaaan tgntctanca gcacga 516

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<210> 7947

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7947

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catgactcag gaatgtatgg actttattta tacttctata taatttttat aattaaaatg 60
accctgtagt caataacaat ttaattgtac attaaaataa tgaagtgtag aattggcttg 120
taatacaaag gataaatgct gaaggtaata gatactttat cctgatgtga ctaatacata 180
ttatatgcct gtatcaaaac atgttatata ttgcataaat atatacacat ttggccaggt 240
gcagtggctc atgcctgttg tcccagaact ctgggaggcc gaggcaggca gatcatgagg 300
tcagaagatc gagaccatcc tggccaacat ggtgaaactc catctctact aaaaatacaa 360
aaattagcct ggtgtgatgg tggacgcctg taatcccagc tattcgggag gctgangcag 420
gagaatcact ttgaaccggg gaggtggggg ttgcagtgag ccaagatcat gccactgtct 480
tcaanctggg tgacanaacc gagaattcat tttcaaaaaa aaccnaaca agttntngcc 540

```

cctgtgggcc. cannttcttg gg

562

<210> 7948

<211> 535

<212> DNA

<213> Homo sapiens

<400> 7948

gagaccaagt ttcataaagt ttttacttgg aaaaaaagt tttacaaaat atctttccaa	60
agaaattttc ccatagagta caattaattc atgtagcttt cttecttaaa gattacagta	120
tgacattcag aggggcgagg tttcttgaat agccaactag ccgcaaaacc tacaagagaa	180
gtagatTTTT ttaaagtgcc tttaaaatgt gaaagcaagt aatgtaattg ttgaatctat	240
ttgaaatTTT aaaatTTTct ttaaaatggt ccatatggta tgcacaatat cacagctggc	300
acaaaactgc ctgtatttag tttgaaacac aaaaacaatg catatgaaca gtattctttg	360
aaaagtaatt caaaatgctg ccactgcctc ataaaggcaa acttagatna gagtggtgac	420
agtattcaga gaattcacia aacaagctga tattaaagta ttcagacngn taccttggat	480
TTTTTcaaat ccncnggtna agggtaaaag aacttggttg ccaagtactn aggan	535

<210> 7949

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7949

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aatgtcttat ttttattgtc ctctgtaa atgtcatatac agttaagatg ttcccaaaag	180
gatttttatc gtgtaaagga gcgtacatga cgacctctac cactgcctcc actaacaac	240
tttctcttg agcctccact gccgtatTT gcactagccc aggaaggtcc aagtccecca	300

cgacctctag aagcacggtc ccgaggactt gggcggtaac ctgtagaact aaggggtcgt 360
aatggtggaa gagggcctct gttaaaattg ctctggcctc cacgactttc attgnaattt 420
cctcgaggag tattctgagc actccaactg gagcctcttg gtccttnccg acgactgnag 480
gttcnntttg aagcangtgg tgtgaaaaac cctattctga ctggggnaag cccccggcct 540
ctttattggc tgaaaaacca cc 562

<210> 7950

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7950

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tactaaaggt ccttttaggg gaaaacaacc ttaaaaatac agttctagtc cttgggcagt 120
gaacaaagaa aaaatgtgct tgagaaacac agtccagggt aaaggaaaac tctcagatcg 180
gttaatgcag ttgaattttt gcttgagaat gtgagcaacg tatcagcaaa tacattcatt 240
cttgtgctac tcttcattat ttagcataga gctaccttag gtgtttctac acatgctcta 300
aaccaagagt aagttaaca tgtcagcagt gaggagtaga cathttctac tatagcacac 360
tgggagatgt ttactggtac tctaggtaga aatgactcca ttgtccacta agtttgggaa 420
ataaataata tggcaacatt gctactggag atacataata tcagaagcct aactattaag 480
agatttgatt aacgagactt aagcttaatn cagaantttc ccaaanttat gggnacattg 540
ggacatcatt tttcatagcc n 561

<210> 7951

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7951

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 aaaataagct tgaaaaaaaa tcacatccat tttacatgca tccattcatt acttctaatt 180
 gattatacta cagataactt aagccttagt tctttctctt taaggttccc cccagtttta 240
 cgagaggcat ggacataatt agcttttttc ctttagtaaa aatgtgttat gtgctgtagc 300
 atacaccaga gcttctactt tccaatcagg caacacagac tccgagctgc ttttggtttt 360
 ggtccctgga ggtgtatatg acaagttgac agaaacaaaa aggtgaagac cctgctccac 420
 ccagtataga gcctcttttc tttgnggct catggaaacc tattaacatg ccttcacata 480
 agtctctata tataaaacta tcaggcatta tgaaatnaat tgcagtacag ncactttgga 540
 naaagtgcta t 551

<210> 7952

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7952

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 aaactgtaaa tacggaacta ggcacatctc aatgttctgt ctctgtgttt acattactgg 180
 ataagaaaat taagcattct tcaacttttc tatgggtctt aaaattcatg gaatatgtgc 240
 attttcctaa tgacccttta aaactaatac cacatatgaa atgttatcaa ggcagaaaaac 300
 tacattaatt tcgactttta taagatgtaa ctcatataac cactaagcta aagaataatc 360
 tgaagtctca agtgggcatg atgatcttat ttccatcaaa cactaaaaac tggctctgtg 420
 cagattgagc tctccttacc tttactgntc agttgagagg ctcttaattc tctaaaggta 480
 gacnaactat gcnaaactgn caattaaaca gnggatcatt aaattcctta taaaccttaa 540
 tgggnccc 548

<210> 7953

<211> 541

<212> DNA

<213> Homo sapiens

<400> 7953

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atttatttat ttatttat gagaaggaga gttactctgt tgcccaggct ggactccgtc 60
tcaaaaaata aaaaataaaa taaaaataaa aaggcccga gctctctga aacagacatt 120
cagtcacag aaagtcacct atgagttctt aagaaccaca acacatggca aacatgatat 180
cagaagtcac cttgtatacg ccagttcctt ctcttcacag tttgtttct catttgaaca 240
tccaaagaca gttttgcgag ctgtgtgcag tcaccacagg ccagtggagt cactgtcatt 300
gtgacaatag gtagttttca ggggcacaga cttgtgctg ggtgatggaa tctaagaccc 360
atttctcaga cagatacttg actgttgctt tcttctttcc gctgtagggc ccgatgacga 420
tgctggcctg gcgggggact tggctgaccc ggccttcgna caggtggact agtcacagaa 480
cttgggcact ggggggcttg ttggcangcg aaacaacatt actggcttgg ccggcaaaaa 540
g 541

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<210> 7954

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7954

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gtaaagtcct acagttttaga tacacaaacc catgcatgtc tgcttaggca gaaggagcag 120
ggaattacta tttgttgaat gcctattagg tgctgtatta gttcttgtac tgctataaag 180
aatacctgag gctgggcaat ttataaagaa aagaggttta attggctcat agttccacag 240
gctgtacagg aggcattggc ggggaggcct caggaaactt acaatcatgg cagaaggatga 300
acaggaagca ggcacattga acattgctgg agcaggagga aaagtgggtt ggggaggtgc 360
cacacacttt tagacaacca gatctcacga gaactctatc atgagaacag ctctagggag 420

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acagtataa accattagaa accacccccca tgattcaatc accttccacc aggtccacct 480
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ccggg 545

<210> 7955

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7955

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aacaccagac agaacagtgc cctcatatct gatggctgtg aagggtgca ctcttttgaa 120
acattaagat ctgctttggg ctccctctt cgccctcacc ctccccttaa aatcaagtca 180
ttccacact ttttagtaac atactaaatg acacatcacc ccttgtagc cctgtaaaca 240
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aagaaaaaaa ccttaaaaaa caaaaactta cacatttata tcctgcactc cccaccacc 360
cgccacccc agttttggct ctctctcca aggcagacaa caaactgatg tggattggaa 420
gtggactgag agaatgaacg gggtcagggt tcanatatcc ataaattctg accctgcagg 480
tccccgggca taccaatgng accacgatng aaanngaac aagttccttg gntacttct 540
ccttgg 546

<210> 7956

<211> 588

<212> DNA

<213> Homo sapiens

<400> 7956

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atcgtaaggg atgggattag caataaattt acataaatc aaccatacct actggaaaaa 180
gacacatgca tggaaattat taatgctata agaatctctt gatatgcagt ttgtattttt 240
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cactgtccaa aatgaagact ctgagacttt tgggcaaaag aaccatttta agtatttgac 480
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<210> 7957

<211> 578

<212> DNA

<213> Homo sapiens

<400> 7957

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gtattggtat agcaataaaa tcaatcaaaa tattgatgta aaaacgtttc ttacagagta 180
gtagaggat atgattcaaa tgaaaagtac agaaggaccc ttgtatttta aaaaaataa 240
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ttaaatacaa ttcatatcag aattaacagt aaataatatt tttctgaata tgcagcaaga 360
gtagaatcca aattatcctt atgtaaatca taagaaactt ataattaatt atagatgatc 420
tggaccacta tgcacatttg aaaaaaggga aaaaaacact aaatatacct tacaataat 480
tctaccaggt cttaaatttt tatgagacgc tatgggggta aatgtatcat taaatgnata 540
ggttacccca tgacggtttc taatttatcc tttattnc 578

<210> 7958

<211> 589

<212> DNA

<213> Homo sapiens

<400> 7958

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aagcagtcag aacgggtgga tataatacag aaccatttgt aatcaaaatc aatgtataca 120
tgctactcgt ttacagggtg atattcagtc gctgaacaaa tctccgtag gggcgctgtt 180
cgtgtgctgg gaacacacag gtcaatgaag agcagccaga aagccccaag ctctggaggc 240
ttccactctc gtgaatcagc accgcttgat catctccttc cacaggggca cagtcagcgg 300
cgatagctga ggctggcagc ctttgctggg tgagtcacag accagaagtt ccgtcgagtc 360
tgaagtttct ggaaggcggt gaagtttctc ctcttctctc tcttaaattt tttaatcttc 420
tttcccttcc ctcggtcaaa ctcttcgtcc cagtcacaa ccacggntc agtccggcct 480
gtctgtggc ttcaatagca tcctgactga ccgccgacat ttggcattc caggcagaac 540
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<210> 7959

<211> 512

<212> DNA

<213> Homo sapiens

<400> 7959

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tacactggtt tccagcatta caggcaacac tagatgtact tttttaatg aataatgtaa 180
acttgagttt taaggcagcg ggtactaatg ctgcacacag acttagctcg gtgcccattt 240
cagaaacggg tcagtcagca ctcgaaacaa gaaactgtga ggggagaaaa ggggagccac 300
cagtgtcatc tgacaaaaac gatccgtcaa agtgttttcc ctttcacacg cacaaaatga 360
aatatttgaa catttagaaa aacaaagcac ccattcccacc aacttcggcc tgttctttaa 420
caaatatctc aaaatactgg taaataatag tgactgctag cagaattccg tgccagatcc 480
aatggncccn agnangtcan ccngcactng aa 512
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<210> 7960

<211> 593

<212> DNA

<213> Homo sapiens

<400> 7960

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gttttttttt tttttttaag taaaagaaaa tttattatga aactaaagga ataaaagaat   60
gaccactcca taggcagaga aacgtcactt taaggttttg acgtcaattg atttttgtcc  120
aatcaataa ttactgcaat gattgaaaaa tgattattac taagtttggt ttcattgtct  180
caaggtctgc tgaactctgg atccaggctg tgtcaacagg gtagtgtggt gcctcctgta  240
cctgtcttgg cctcctacag tcctttttac ttattttggt ttttagaata gagacagggt  300
cttactatgt tgctcagact ggtttcaaac tcctaggctc aagcaatctt ccagcctcag  360
cctcctaaag tgctgggatt acaggcatga gccaccacac ccggccaagt tctttaccat  420
cttcagaagg cttagcttgc acttttggaa gaagaataga ctcccaggaa gactgtgaga  480
gagatttggg gcccaaattg atattaacaa ataccctgaa cttgctggat tcaccatggt  540
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<210> 7961

<211> 576

<212> DNA

<213> Homo sapiens

<400> 7961

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aacatcaaat ttggttttatt tcaagtttgt aacaaaatat attctaggca acttttcaga   60
cattgtttta tagcatcata aaccccatat cactgctgtc attccaaaag ctgccaggac  120
actggaagtt atcaagtggg ccagccctgg aatacaggta gaattcacat gataggtgat  180
aagaaagcaa tgtctgtggg ccactctgat ccctcttttt accttggtag gtaaggtatg  240
atcttaagac tatatgtact gagtcctatt agtcagtga aaagattaaa gtgacaagtt  300

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atgtgctttg ttcctatagc tttgaagttc atccacctca ccagcaattg gaaggtctca 360
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 gagattactc aaggagaga acaacagaaa cggaagccat gactactgcc ccaattctag 480
 attangttan anggtagaat aaattaacta atgggggaatg gtantgggta gcagcanacc 540
 cnagagacag aattgngggg gttcctggac ttaaca 576

<210> 7962

<211> 589

<212> DNA

<213> Homo sapiens

<400> 7962

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 ccagagcaaa cagcatcggt ttacttgggt taagtaggca tgcaaacaac tcattataac 180
 ataattgcag aaataaaaat tatgagtact ggcaacctaa acttaacata taaaagaagc 240
 acttcataac taataaagta ttaaaaactt taaaacatgt catttaaaca atcccaccat 300
 caggaaaaca tgctttgaac cattttcaag aagtgatcat gtgaatgcat taatttactt 360
 gttttaaatt ttttgttgtt gttgttaatg cttatatatt ggaccaatgg aacacatttg 420
 tttggctggg gggttcagaca cacagtttgt ggtgtgaaag acattttctt tncctcgnac 480
 aataccggag gaccacagag caatccaatt ctaaacttga ccttataata ccatnttcca 540
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<210> 7963

<211> 578

<212> DNA

<213> Homo sapiens

<400> 7963

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 aaaatcataa taçaaacaga gctaaaatca cgctaacaaa ataaactaaa tatgaaaagt 180
 tgcattgaaa gggcatcaca ttattcttaa taggatcgtg tagaaacatt ccaatggcag 240
 tgttctcaaa ataaaacaaa attacattag aagacctcca gcctggccac ttttgggacc 300
 ttacctgtaa ctctggctgg tgggtgtctt tactcttgta ctacatggct cacttacatc 360
 agacatcata tttgtatacc ctgagaaatc tgacactgaa gtccttactc tatgggccac 420
 ttctccatta gagttagtga taaaggatcat tggcaccctg ctgcccgaact taaactgaga 480
 ccaaacgctt ggtgccaaagg tctcaatctg gaacngtggc ctaagctcta tgnctttctg 540
 aggactatct ggctagctac tccggaatgg aactgnaa 578

<210> 7964

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7964

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 acaaaggagg gggagggcac acaaagtcac cacttgagga ggtggaaggc cggcacatcg 120
 gtaaaagaac ctcaggacag ccacatgctc catgccctgg ttgggggaag agggagagaa 180
 aagcgccatt gatagcttgg agctcgtana agggctctgaa gcccctgaac ctaacaccag 240
 agccacaagc cctgcccctg agggctcaca cactactaca caagtagaca cacataacac 300
 acacaagaca ttatgaaggc aacaccgaga ggcagtgggc aaggacatat tgacagaaaa 360
 aggaactgaa gttaagcagg ttagaccagg agagacaagt ttttggtgc ggccccaaga 420
 gtccctcaaa tgtcccctaa atctgggctt ctgttgagca cccgatctt tgcctgtgaa 480
 ccgggctctt tggctcttta gcccangga gtggaaaacc aatcccgatg aagtcttgga 540
 caagnaggat ccttttttat tcaa 564

<210> 7965

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7965

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acaaaagatt attttattaa ttcaattttt gcataaaaga ctgttaaaag aacttgctaa   60
cttgaaaaca attttgagta tttatgatcg ttccaacctg aaaacacctg aaccttatag  120
aacagattgt gttaaagcagc cagggccaca ggagtgaaag aagatggaga cccgccgtct  180
ggtcattgata tgagaggcct ggacagtgc ctcacgaaca aaaagaaatg atcctcttca  240
gtccaaagtg tgtttgtgag actaatgact ccatgccctc acatggccac tcctctcaca  300
gcagacagct tcactccgct ccagccccgg tactgcggtc tgtggttaatt tacatgggaa  360
tgggatgaga tctagtagtt ttagatccaa cgcaattctg ggaagggttg gtaataaacc  420
aaaactcaat ctatgcagta tttaaaaaat aagtgagaag ttgtgacaac ttcgattctt  480
ttcaggangt gctggcttaa gatagaagaa agggatcagc tcttatctta gaagcccaga  540
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<210> 7966

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7966

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actttcaaag agcagaggaa cattttatat agtgaacaca tacacactgt ggcaatgtaa   60
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aatTTTTTgt cagtcagccc ccatcccat cccttatctt cgagtgcct taccaggaaa  180
cctggctttg gtggaaagga gagctgtggg gcttggggag cctgatgcct tttcttttgg  240
gaggaaaggc cacctgcaca atccacagga caggagtggc cagcagctat cctgagctga  300
ggctccagaa gagttcagat ccaagagagc aagggatgaa tggaaggaaa gtcccacca  360
ccttcatgtg taaagtgatt ggcatttact caaatctaaa tctactctc tcctccctgc  420

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aatataccat tgagcatgtg ccaaataatg gtttgaacaa aagccaacac agatgtcaac 480
 ctggggcact ttaacctaa gaaccctac agncgagccc ttanccctaa tgacttaggc 540
 ataggttaag cnggaaattt aanttgctn 570

<210> 7967

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7967

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 gggactcagg cagactccag ggaggaggag ggggttcac ggctgacgcc caggtcaccc 180
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 ggttgtccaa agccaacgtg tgaanacggt gtcttgtgaa aaatgtgcac caatgtgcct 420
 ctggggacna gtgtaancit gccccagna gggaagccct ttgccacttc caatgaaaag 480
 ggggcttggg gcangctcac attggtctgg gtngcaaagc aaggnccttt gttcnacca 540
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<210> 7968

<211> 535

<212> DNA

<213> Homo sapiens

<400> 7968

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agggaggcag gccggccgct cccggctgca ggaggagaag tttttttttt tttttggttt 180
 tgttttgtgg ttattttttt ttacaacttt aaatacggaa tataaataaa ttttacattt 240
 aaaaaataaa aggaaagccc ccaaaaatat aatcacggac ttacaaaact gaaggaagca 300
 ggttttggaa ggcggaagg gggaaagtgc attangtgnn aagggaggtg ggagctcaaa 360
 tccccccca ggggggtcttg gggaactttt cccttctctc cccattccc agcccacgag 420
 ctggtttcct aggaggagcc accagaggtg gaggctcana aagggatcaa ngaatgggna 480
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<210> 7969

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7969

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 tagaaagagg gaaaaggaag gccaagaac tcttaagag aggctgagaa caagaacaaa 180
 aaaaccaga agtgtaggta atacgtaaca gcgcagacag aaccgttgta ggccatgtat 240
 aataaataat gcatgcccc aatttcagtt aatcatataa tttcaacttg agttctaata 300
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 ttattaaagc tatcattcca ggctttgatc aaagatccaa gaatatttgg tctaccaggc 480
 tggaatgaat gtggnttgga agtcagagta catttaaaag ctgcaccaa attingtagc 540
 ccacaatctc aaaatttgga tcanccaaan gaga 574

<210> 7970

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7970

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ttcaagcaat tctcctgcct cagcctccca agtagctagg attacaggca cacgccacct 180
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gccctcacan gatgaagttt gagaactggg tatgaanttc ttctttaact gtcagtatga 480
attcancagt gaagccatna gggcctggac ttttcttga agggagactc tttntaactg 540
attnaatnn 550

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<210> 7971

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7971

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caggatgatg cttcaggaac tttctgggca caaagtgctt cttggtggac aatttttaaa 180
aacacacaga gccacgtggg tcacctattg tcaccaagag aaaaaagaac ctcaaaatca 240
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tctgcgtcct cagtggtaac tcctgtccct gctcaagtcc tncgcctccc cgcactgctt 480
ttcctttgaa aagcaggatg cttgccnca tggncnaatt gaagctgtnc acaccaggca 540
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<210> 7972

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7972

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ttgaacattt ttaagtactg tattttctct attgtaatat tgactgtcat ctctgtgcag   180
gttttttagt ggttgctcta ggttgaaacg ctttgaattc ttaggtatct aagagtgagc   240
attttctttt ttgactgct atactctcac cagttgccag cttctcatat aaatattgta   300
aatgctctcg tttaggtaac tcagcttctg gagttgaggg aacttcaaaa tcagaagagc   360
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atccctttga tgggtgncgg aan                                           563

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<210> 7973

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7973

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catggtggac agaatgcggt tatttctcca gtttggccta ttttaactcc tacatacatg   60
aacagccaat acaattaaag tagaaacaca atttttaata ttccttatca cagccatttg   120
aagctccttt ctgcccaaaa ggtctagact gccagcagag gccctgagac aaaggcactg   180
ctataagatg cagactgtat catggcacag tgggaaagtc accatgtgca aaatccacgg   240
cttgcctgcc tctatgcctc agacaggaac aaatcatggg atggatctgg gatctataca   300

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acagctccat gaggcaggac aatcatatga ggttttatgc tgaattacac ccattttccc 360
aatgaggaca cataaaacct cccaacatg tgagaagttt cagacccaaa tataataagt 420
gatgtatagg catgtgacct gcgaagtgag tttgtcaacc ttgtttcact tgagtgtgaa 480
aaatgcttta taattttgat aatcttacct ttagcagctt ttttaagaaat aacttgctcc 540
aagggcccg ccccatnggc ttatgcct 568

<210> 7974

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7974

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atctaaatat cctaacagaa atgctgctga atttagccca ggtgaaactt ctgaaagctc 180
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<210> 7975

<211> 586

<212> DNA

<213> Homo sapiens

<400> 7975

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 tgactataca taattggttt tttcctgac ccttggaatg ttagtttcat gtaacttttt 180
 aaaaaattaa aacattgcag actaaatgta ctgataagta catactgaac acatttaatt 240
 accacagtaa ttaaaaagtc ctgatcttta cttcttaaga tgaaaattca ttaacttgca 300
 atctctggga tttctctatt atccacaatg agagtatgaa taatcccttc tttccgcttc 360
 ccactactga cagcctttat gtaacagtca tgggtccga tactgaagtg agtttcaagt 420
 cccatcatct acaaactcac ccgctgctcc aattttttac cattgaccat acgtccatag 480
 catctttttc caaaacaatt ctaaggcttc accatcctgg nggtaatanc ccaagantgg 540
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<210> 7976

<211> 501

<212> DNA

<213> Homo sapiens

<400> 7976

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 taaaggatca tttgattttt aaaaatgtca gcttcatcac atgatgttcc agagatctga 180
 ccccaaaagc ttctcaagtt ttactatcca tagtgtcctt atttgtaact gagaccatc 240
 cgttattttc catctgaagc ttcttcagca gtttataaca aagtgaaga agttggacta 300
 agagagccat catggatctt gncttcgtaa tacacttgtc aacctttaga aatactntat 360
 tctgcaaaga agtcttagtt actgtctgga gctggtggca tanaggaatt agcttgttat 420
 ttccaggaga ancataagct tgnccatngc tttcaactgn ttttgaaaaa gcttgnacnc 480
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<210> 7977

<211> 584

<212> DNA

<213> Homo sapiens

<400> 7977

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cagttaggaa gcatctttat ttggcaaatg aggacactga ggctcaggga aaaaaagtga   60
ctcattccag agcatacatt taaaatgtac agctacatca tctatttgca acaactgcct  120
aacaactgtc tcttagaaat aaaagttatg tgatttcttg ctaaaagcag ataaataaat  180
gagcagacaa ctaagatcac ttcatcggat gccagagctg tctgtccaag aatgcaacca  240
agcaaaaata attttgtctt caaaataaca gaaaaacata ttttttgttt gtttaaagca  300
tagaagtact attattaagc acaaaaataa aaaaacgttt taggtagttt gaactacaat  360
ttaaactga attatataac aggtgccatc tagtggtata aattaaaact gcacagaatt  420
ataactaatg tgtagttatt aaaagctaaa ttatatccaa agcaattcag ngatgtcatt  480
gctcacaatt caaacttttc ctgaatctgg atgcctgnct ggtaaagac attactattc  540
attttctcaa gtaaaatggg aaantttgac ctcnnggta ctat                        584

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<210> 7978

<211> 589

<212> DNA

<213> Homo sapiens

<400> 7978

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gagaaatgta gttttattaa tagaagggca tgtcttacca tacacactgt cccagataa   60
ataaaatccc aacatctttg aaagcacaca aacacacagt ttacagggt acaatacaaa  120
gtgaactttg atgatgttct tacttgcatt tactaaaaat ctgagaaaga ctgtaatcag  180
tctctaaata attatcttgc gtaaagagaa aagtagagca caatatatat atatcacaaa  240
ccaaatcaca ctctctgtaa cattacaaca tggaatttac ttaatcaaaa ataaaagcaa  300
actggctgaa gaaggctgta tcattttttt ctcaatatta cgctaatttc tatttttggc  360
atgaattatt aaccttttcc attagtaggc aaatgtgctc tgcaaattct cggatggcac  420
cacggccacc attacatttg caaatgtatc caacagcctt ctgggcagta gaacaggcat  480

```


cagcaggagc cgccacttan gccacttct tttagcactc ttcacagac acttcatttt 540
ccagaaatgn cacttntttt cangacaggg cttttctttc ttcantcan 589

<210> 7979

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7979

gtttttttgt ttttttttgc tttcttgttt ttttaatgat tgtaaaaaat tatgcatgat 60
cagtacagaa aatagaaatc gaggaaaata cagagtaaaa gcttctataa taacactgag 120
acaactatac tttcaccatc actgtatctg tagcaggat cgtacagcag gtgcttttaa 180
aacagttgtt gaatgaatga ttactgttaa tatcttgcaa acatcctttt tggctttcag 240
accaaaaacg aatacataaa taaatccttt ctctgggttg tttcacctct aaaccagaag 300
agctcagtaa agccaccaga gactaaagct gttaggacaa tatcaaactc cttacattgt 360
aatatgtttc acaatgacag ttgatatctg atgcctatgg aatataagga aacaataaca 420
tttaatccat cattctgata ggcacaatat caanggtggc tcaattttga gcaatatcaa 480
gaaggctgca aaacagtnca cagtacttta actnaagcca gaatggcttc ggcacctggg 540
aaattggctt gcctcctnan c 561

<210> 7980

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7980

cacttgaggc actaatttat tagccttatc acaatatcaa actgtgagct attctaagac 60
acacatttat cagtttggat ctagctaggg ttgtgtagtc taaaaagctc tccaggcgat 120
ctgttttgca gtcctccccg taaagggaaa aaccatgata gcgatacttt ctaattttaa 180

ggcgtatacc aatcacatgg ggatttggtta agatgcaa at tctgagtc at agatctgggg 240
 ctaagccagg gattctgtgc ttctaacatg cticcctgggt gataccgagg ctgcttgtct 300
 gcagaccaca cattgcatag taaggcccca gaacatcaaa tattcatctg aacaaagtaa 360
 tataaatatc ctcaggtatt tcctcctctt acacactgta ttcccagctt caaggcctgt 420
 agttcttttt tctcanaggg cctggaattg gaaaagagat gaggaattaa gaagatcaca 480
 gcggncgtgag ctgcaa atcc tgcctangag cacacccgtc cntt gangnt caattctctt 540
 caacaatttg ncnc t 555

<210> 7981

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7981

atgttaaagc tgatatattc acaccataaa ttataacaac acaggaaagt cctttatcaa 60
 agccataaaa gtgctggaag ccattaacaa ggnaatttct acttctaaaa attcagggtta 120
 aagaaatcag aaagcaagta tccacataca aatgtataat agtgaaacat gatagaaatg 180
 actcaagttg tggtacctca aatcattagg ctactataga aataaaacca gtatcttgta 240
 ttaaaaattc caattcatta ccctaagcca ttccatgcct tctacttggt accatcgcat 300
 cactcctcca gtgaagtgct ttggttggtg aaaagggtact ggctgacat tacacttccg 360
 gactgggtca aaaaagaatt tagtattctg cctaaccgtt tcagacaatc tatctttaat 420
 tatactattc gaatctttat ttttctgaag atcttccaca cagagattan tagangagga 480
 gttttcatnc tcattctcctt ttaatttttt anncccagcc aaaattncta agagggtggg 540
 gaaaca 546

<210> 7982

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7982

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catagttcat agtttattac aaatgcatat tatccaactc agtagaaatc catgtacccc 60
agaatgtaca gaaggatatgc aatgttccag agtgtcattg tcagctctgg ttttatatat 120
atattaaata tatacatatt ttgagacagg gtctcgctgt caccaggct ggagtgagc 180
ggcacaatct cagctcactg caacctctgc ctcccagcct caagagatcc tcccacctca 240
tccttctgag tagctgggac tacatgcgca tgccaccaca cccagctatt atttttat 300
ctttttgtan agacaagggc tcactatgtt tctcaggctg gtcttgaact cctgggtctca 360
agtgatcctt ctgccttggc ctcccaaagt gctggaatta taggcatgag ccactgagcc 420
tggcctgatt atctgnnttt tgaatagtga ccctaattng cttttccaag tccagtactt 480
ttgataaaan tttttagcaa gggcttcac tanggccac ttctgggcat aatataattt 540
cttnccaang 550

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<210> 7983

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7983

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aaatcaaacc caaaccacta ctgtcctaag cattatgggt cacagaatca agtgaaatgt 60
atggcatttt ttccttctct ccatacaagg gtactctgat caagagctag tctatcaact 120
attgatcaag cttttataat gacaagagt taagagtaac taactgcatg gttacaaagt 180
atgttatata aggtccaggg gattttcccc aacagtgtag aactgattgg aggataatag 240
taagggttctt gaattgggga aattccattc aaatgataat cctcaccagt ccatggagct 300
tttaagcccc taagcagcca taaacaaaag cccacttgac aaagaaatgg tatgcttggt 360
taccatagga catctcactc ctctggcctc attgcttaga tccttccttg aactcagagg 420
ttctaaagtt acccatatct tctaataaag aagaaaatta aagtcaaac tgngtgaaaa 480
tcaggccaaa aagtctaaaa atcnccaaaa tgggggnatn ccccttttaa ccacnggata 540
gggatanttt cttgnc 556

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<210> 7984

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7984

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gagaagaata aggtacttta ttcttctgtg gcagggaacc caacacttgg gtttacgttg   60
cagggaaca cctgtgatga acaaaacaca tggttagcgat agcccattca tgaaaaagcc  120
cattcatgaa aaactaacag ctattctttt cacagggata gtcaaaaaat gagttgaagg  180
gaaaaaagta tctccagttg gagccaaaac agccatctct agtttgaaaa tacactcaac  240
aaaatgttgg tgattagaga taacaggaac cgggcaaggg aggaattttt acatacgttc  300
aagcttttca ctttgcagcc acactctgat tttatcaaaa ttcctatcca tccaaccgat  360
gttttcttca atggtttcaa ttgtctgttg gacacaacgg agctgagaac cattttcttt  420
caaagagctg aagaatcctt ttacctcttc aagccgggtc ttgtggagaa ttgatttgg  480
gnaccatta ccatggtggc tatgggaaga tgaaccagg ttcaaacttt tggccaagtt  540
tggtncngt ttttctca                                     559

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<210> 7985

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7985

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gtatttgcag gacaagtaca actgaaccaa caaatttatt tagttagtgc tgataaagac   60
agcagccttg agagacaagc agtaattacc tggtctactt aatgatgcc tttgttatat  120
tttacaggca aaaagaatga ttcctcagca gtcattgtga aattttgtgg gccacaagta  180
ttgtgcacac atgatacctg atttagagtc aacctgatgt ccattatagc tgtggaaagg  240
cagcaggcag ttgtgtcgct cttcacaata aggaacacat cttgctttca gcatgtgaga  300

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ggaacaaaag cattgatgta aatgtgcctc aaagtgagaa ctgaaaacat taacataaaa 360
 taaaaaagtc aaataagact aagttcttac aactacctat aaaaattgaa ttattacaac 420
 taaagcagca aatcaaaaaca tctgctgang gtttctggta gaacaaccac caaattagtt 480
 ggggccatgt tcaataagta ctancattgc caaacttaat ccaaattngga aatggaaagg 540
 cnttatggaa a 551

<210> 7986

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7986

aatgtgcaaa ttttaataaa agattagaat atatacaaaa cagggaatg cagtaccaac 60
 aaaattatta taaatttttc agaaagaaat aaaaaatgta tacattaatt ttaaaaacaa 120
 aacaaattga atactcaatg agtaaaatat gaacacagag aactacagaa aatcagaaaa 180
 ctggaaataa gaacagaaat atttaaaata ttggaaaaac agaaattatg gaggtaaaaa 240
 atataaaaaa taacagaaat cttttaaaaa gtgatgtaaa aatgaagaag ctgaacaaac 300
 aaactagaat acaaagatat ttatatcaaa cacatatgta agcacaattt taaaagtcac 360
 agaaaagaga atctcgggag ctgcaagata aaagtgatgt gttggctggg cgcggtagct 420
 caagcttгна atcccggcac ttgggaanc tgaagtgggt gaatccctga aggcaaggag 480
 atcgagantt ggctgaccac atngngaaaa cctggctttc ttaaaatcca acnttacttg 540
 gggggggggc tnatnc 556

<210> 7987

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7987

ctttgtttgt gccaaaaatg aatctctttt tccatttgat tttctctcca tgccacttat 60
 cttcacattt agttgtgaat tttctgttcc atcagaatat ggtccactgg attcctccat 120
 catttcaaca gtttccaaac caggcaacag gagcagaaat tttgtttgg cttgtgtag 180
 tactggtttt aactcttcag gataaaccaa catcatcact ttggcaaaag tggcattcca 240
 gaactgagca ctctgttttc gaatctgttt attcttgtgc agaaatatta tgcataatag 300
 tggggagagt tgttcaagaa gttcactatc ataagttccg gtgtagctga attgcagaca 360
 agcaataatt tctcccagta gcttttctaa ctgttgttc agacaactat atactttagg 420
 aacttcatca agctttgagt tttcataaaa taatgccaga ggtcttggtta aagttgcaaa 480
 tatttttcgg atcatagaag gcaagaaata tgccccaggt ccctggnaat aatggccgtg 540
 aatggagttag cccan 555

<210> 7988

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7988

agagttgtga gtgaattgca tttttattta cgtttaagag tctctctccc tccttgtgtt 60
 ctagtctgtg aatggctcac acttggactt agtgtaggct cctatgggag gagcgggcgg 120
 tagtgagaat cttcatcaaa tggagtaaca tgacccaaat ctctagaggt ttcataattt 180
 tgctcttgct tctaaaaaca taatcatctc ttatgggggtg ttatgtgctt tgtatcctga 240
 aattttccac ttgctgcttc ttggtgtgag gcgagaaatg ccaccacgtg gcactgcagg 300
 aggagactgg tggaagccac agggctaggc cttcacttcc cagtgcact gttcccaatt 360
 ccctccagga taagctgaga ctctcagga tgtggttctg cagcagatga ggtgcgaaca 420
 aagcctgctc tgccctgggc acccaggatg gcactgagtt ctaaaaggca aanggtatgt 480
 ggtgaagggc caagcttaag gcctggtgtg ggacccttat tggcnnaaac ccnntttggg 540
 gcccgtgna 549

<210> 7989

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7989

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gctgaagata aatgtggctc ttttattaat gcataaaaag aagatgtttc gaaatgtgag   60
ttgcagtcag gctggaaaga aaggaacagg gatgtcccaa tacctgaata ggagaggcag  120
cccagagtgt cgatataaac accctttttg aatgaatatt aaattcatcc tgctaagtgt  180
taataggaga atttgctttg gctaaaaact ggggtgtttt ctaccagaga cttgctggct  240
ggtcactgtg gaccctgggc atgagaacct cctttaagat tgggttcaca gtagctacag  300
aaacaaattg aagactgagc agagctgcac cccgaaagca acggatgcta ctatggtaac  360
tcaggattgt acacaatcct tgagaaacca tatecttctt cagataaatg tcaagggact  420
ttcctaagaa atagatacag tagagattta tttaggaaaa aacaatagct ttcaaatgng  480
ctatcccctt accctgggag tagcanaata ancttcgagt attaccatta attggcctgg  540
cctggnaccn nt                                     552

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<210> 7990

<211> 543

<212> DNA

<213> Homo sapiens

<400> 7990

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gatctgctgg ctcagggcc aatgtttaat ttgcttctcc aaagtcgttc atcttcaaaa   60
gtctgattct gggaaactga tgccactagc ctaaaagccc actgaccatg tagtgtgcat  120
cagtttcctc ttgtccagta agcatttate caacagaagc taagataaca tctacagggtg  180
ttctctcttt acttctgaca gtcacctgca tggctactcc atcggctaag gccagcctgg  240
acctcaccaa taaatcatag ccacctctga atataacctgc cagatagagc gaatgggaat  300
tcttgttctc aggtacttta tcggacctct cacatggctg catgcccaga aatgtgatga  360
tattgttgac agcctcttca agggttttgg tagaactgag ggcaaagggt tcctctttct  420

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caaaggtatc tcccacctct tcccaagcag cagcaaagtt aggcttcagt actttctgaa 480
 tatggtcaga cccagcactt tgagactttc agccatactc atcatatacc catcctattg 540
 gga 543

<210> 7991

<211> 542

<212> DNA

<213> Homo sapiens

<400> 7991

cagggggcca caagagtatt ctcttttttt aaaaaagaaa aagataaatg ggcacatata 60
 taaaaaatac tgtcaatttc tactgggcca acacagtagc cactgcaatg tttctccttc 120
 ttccggagct ttcctcccat agtctcacat gtactcctgg cacagccaca ataccagtct 180
 ctgggaagca tatgtcacct actccacgtg ggtcccatc cagtcaccac agatggaagc 240
 acctgagcct ccttgccagt ctttccctgc agagtcactg cactggcagg gagctggagt 300
 ggagcacgtg gttttcctgt cctatatctc ctccccccac cgcagataat actgcttcct 360
 cgggtggccc ttggggcaag tcatcaggct ttatgggcca ggagggtggt cagcttgatc 420
 ttgccatcca tggaggcggt gaagcaggtc ccacagtcca tggcagtgct tcaatcacng 480
 ngaccacaag ggctttgggg ggcacctaag nttanacaag ttttccaaac cttttaatgc 540
 cc 542

<210> 7992

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7992

aacatttaag acagctttta ttaaatacaa aagcaaaata agctctaagg agtaaggtag 60
 ggctacttaa gggcggtttc tgtggacagc ggacacagca ccattaaggt tagcttagat 120

ttgaacaaac catgagcaga cagctaacta catgttatgt ttctcttagt agtttttaggg 180
 tctgcccagt aatcaagaaa ttttacttct ccagaatata tgaacatggg aaccaaagaa 240
 atgtaaatat ttcgaaaaag cactacacaa taaaatgaga cgcaatcctt atgcagggtca 300
 agatgttctc cacatctaca atgtgcatta acaaaattaa tgcagataag accttcactc 360
 caaccccaaa gatcttacat ggtaataact attttccaaa atcagcagaa caagctgcag 420
 ttactttctt tagacattta gctttggaac tttgaatttc aaaggaaaan tgggtataaga 480
 aagctaggcc atatatattag ccattgnanc cctcntttac ctttggaatc atccggggga 540
 tnaatn 546

<210> 7993

<211> 531

<212> DNA

<213> Homo sapiens

<400> 7993

gggttaaaca gtattttattg aatgtaaagt accccagccc catggggaag aaaattccaa 60
 gaacggggaa taatacagat taaataccca cctgtgcatt cacactctca cacacacaca 120
 cacatgccac gcacatatcc aagctccaac ggtgacaaat caaacacctg ttttccccca 180
 gcctgagggga cagctggttag gaggtggttc agaggtgggg ctccaggatg ggctctaata 240
 gcagcagcct tgtctctccc tgccccctgc cctgccccag gggtaaagg gagctgggcg 300
 gggcgcctag gaggttggcg gcaactcttc cccactctgc cgcagacgct tcttggtctt 360
 gatctcattc atagcctctt caatggagcg tgtgtccctc ttattggcca cgggcacaca 420
 agccgtaggt cttattggcc tgtaacatgt gggctgcgtc ttttggtgn tnccttgncg 480
 atgaagtggc tgnacntggc ccttgaancn cttgcaaggg ttaacaacac a 531

<210> 7994

<211> 512

<212> DNA

<213> Homo sapiens

<400> 7994

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ggttgcaaca tgtttaattc ctgctgttca cactggacac tgcatcatac tagtgtcggc 60
ccctgagggc accccttcct cgcctgcaca aaggaggacg agagatgaac attcagaggc 120
agaaaagggc aataaaaaaa gagctgtgta tgtgacctcc aactactcag aggtggggga 180
aaacagcccc atctgtcttg cactaaaagg ctcaccaagg gcaggtgagg ggcaaatggt 240
aatactggga gggggtaaca caaggagaag cgacatgagt acaccaagat gtcaaagctg 300
cgacgggctg gatgaggagg ccccaagagg gcatatgctc agggtgccag ccggctgctt 360
ttccttgta cagccttgca aggaagctgt gaggccagga cactaggcca gtggcatcca 420
cactgcgtcc ttcaggaagc caggcctntg ngcctcattc ttcaggaagg aaaaccangg 480
ccccccgag cttttneccan tngcaggaag tn 512

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<210> 7995

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7995

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cacaaggcac gccatTTTT ctttatgagg aaattcagtc tggtcacatt gtcagaaaaa 60
aaatctacca aaactaaata gtttctatat ttttttcatt tacaatctct gaatacaatg 120
atctacactt catgaaatgt caccctcag tatccgtgga tgcttggttc caggaccgcc 180
ctccgatacc aatatctgca gatgtcaag ttcctgatata aaaatggcac agtatttgca 240
tataacctag gcacatcctc ctgtatactt gctaaatcat ctctagattg cttataacac 300
ctaatacaat gtaagcacta tgtaaatagt tgttatactg tattggTTTT taaatttgta 360
ttatttttca tcgttatgta tattttttat ctttttagaa aatattttca ggccgggtgc 420
ggtggctcac gcttgtaatc ccagcacctt gggaggccaa agcgggcgga tcacgaagtc 480
aggagatcga gaccncngtg naaccccgnn ttacttaaaa tccaaaaant anccggcctt 540
ggtggcggcc ccttgaa 557

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<210> 7996

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7996

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ccattaaaaa ttatatttatt caaattatgt tttccaaaag agagggttct gtgctagtcg 60
tctttgaaag ttttcataacc atttcagaac cacatttgcc ggaatgaaca tttcagatgg 120
gcttggtgtc atctgggcct gagagacagc aaatgatgaa gcaaaattgt agaaattgtc 180
caacatcttt tgtgtgaact gagtgaatga gtcaactgag gatacagcag cattacctac 240
aggagtctgc tgagccatac tgtctaataa ttccactgaa attccaatct gagcaacaga 300
tgaggttcgg acaatattca tggtccaaa aggatgttgg cttccttctc cagatttaag 360
acctgaaatt ttgaagatgg cacttggtt cccattcgtg acaaatccta ggagttgcc 420
tactggcatt ccatttgaat caggataaga aaagttgacn gatccttcca ttccctnang 480
aaatgggaat ggtncagca ttaaaacccc cacctnggtg gaaccttcat natccgnag 540
gccaaaccaa 550
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<210> 7997

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7997

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ctaataagag ttaatatctt tgcttttgag ttttttttcc aaccttaaatt attacataca 60
tacacaaaaa attacatagc tgcaatgtgc tcaacagcat cctctcggcc tggagcttca 120
cattatcaaa agcttagaaa acttgtaaac ctctgggcct gtctctgggc actaggagag 180
ccccgccgg ccgtccctt cggattgagc ctgcagtttg taagcgaagg gctgacagta 240
ggccttctag tccaagagag ggctggctcg cttggagttc agtgagctgc acgcctgtcc 300
cagtgtgacc atgtgatggg ggaggggccc tagcacttgc cctggccttg tgcagctgct 360
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cttgccccca gcagcctccg acagaagagc aaggcaccta tagctgttgc tttccctgca 420
gctccctggc ctcaactcca tgtgcatgtg tgaaggccac caccttttct gggcgtaccc 480
ggaacctanc ctggncccna ccttttttaa aagccaggtt aacaaggctn agggcttaaa 540
ccggggtcaa anggccttnt 560

<210> 7998

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7998

atttctgggc tttttatattt attccattgg tctctatttc tgtctttatg ccagtccac 60
actgttttca ttactgtggc cgtatatagt aagttttgaa atcagcaagt gtgagttctc 120
caactctgtt ctttcacaaa attgtttggc ttctctgggt ctcttgagac tccgtataaa 180
ctttagaagt tttctgtatc ttgggatcca ccagggtccc agccttgatg aggtacttca 240
ctgcttccag atggttggtt tcggtgctt ccatcaacgg ggtcctctgg tcttctgagc 300
aggtgtcaat attagcggc gcctgaacca gcatgtggca gatgtccacg tgtccagcct 360
ctgccgcggc gtgcagtgga gagcgcttat tctggtgctc cattttgaag ttgggggtcaa 420
ttccgtccac cagcatgagg agcaccttct gaagctnccc ttgcctggcc ggaaaaatac 480
agctgctttg ggtggaaacc aaacttcttg gggttttncn aatcnanggc catgaaagcg 540
ctttccaagg ttnccttncg 560

<210> 7999

<211> 576

<212> DNA

<213> Homo sapiens

<400> 7999

ccttgggttt gccttaccat ttattgaagg catactatgt actaggtaca tacatgatca 60

catttgatgt tcacaacagc cctgacaagt gggcttctta cccctatttc caaaagagtt 120
cattgaagtt ctgagagctt aatccccgct ttaggctaca cagtagtagc tggatttcct 180
ggcatcagaa cccacaccta ggctgcctct gagcatggct tctgtgtccc agtctcaatt 240
tccatgaagt ttcaggtcct cctgttcccc cgcatttgta gtcactcttg gtgactggga 300
acaaagggt agagcgtgag ctgaaactga gacaggaggt ggcaggcagg cagtggggag 360
agaaactttt ctcacatcca cccatgtgaa gaagatggac aaaaggggtg ggtctttctg 420
gagggagggt tncaagccac tttcccaaga atgctgatct tgggatgaaa tggccangga 480
cctgatttgg ggtaaagggt atggggtngg ncacattggn tttctggggc ttnaaacttt 540
atttcccctt cctttgggga aaaaaaagg ggaaan 576

<210> 8000

<211> 567

<212> DNA

<213> Homo sapiens

<400> 8000

agtataaaaa aatggaatca ttttatttaa atcccccaaa taccagagat gaagtaaatac 60
atcttttatt ttcactttac atttggttat catgagacat gcaaactcct ccaatttttaa 120
tgagaacagt gtttttgtgt ctttttatca catatccact taatattagg tgtaatattg 180
ctaagtcgga ttcgcatatg aggtgcagca tcaagtcctt tcctatattt tgtttttgtt 240
gcagcgtaat atgaaaaccc cgtttcacac aggtgcattg tagcaaaagg aagaagtaca 300
cgactgcac gccttgcaat gcttgggtat tcctgaatta ggctactcca aaaatcattt 360
agtgaagtt cactaaaatt ttgcttcact tgagaatcag atggttaaat caatcaggct 420
ctcataagtc ccgggctact aaatgaagct gggttaacag taactgnaaa tggatttcta 480
accaagcat tattggcatt tggtagga aagtatttta accagagtag gcgcaaaccc 540
cntaagnnc tgacaatggn attgnaa 567

<210> 8001

<211> 562

<212> DNA

<213> Homo sapiens

<400> 8001

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ggttcaggtt gtctttattg atatgttcac tcaccagaga ttctacattc tacgtaaaag   60
ctcaaategc cagatactgt tattactatt ttaggagggc ttggctaata caaatctgga  120
ccaaatgttg gcccatgcta aattatatca aaagaccaa catccaagaa aggcaggaat  180
tcaaagattt cagaagataa aaatgcttga ttgggtccct ggcatgcaac cagcccatca  240
acccctcac tgccctctgg caggaccag aagatgagct cccttcttgc cagagaaat  300
acattcatga ggctctgctg attttctct ctaggcctgg gaggctgctt gaaagagctg  360
ctgtgaacgt gggctccctg atctcagcaa cagagataga cagaaggaac aaaatagggc  420
gctcatcgta agggataggg catggaaacc agacctcgag ctgtgggtcc caggaatgaa  480
aaaaggcnga cgcccctaag atatnggcta antatgncc ttacttaaga antttggggc  540
caacaagttt tngttnaggg cc                                           562
    
```

<210> 8002

<211> 553

<212> DNA

<213> Homo sapiens

<400> 8002

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gtttgtagaa gctttattca taattgccat aacttaaaag caaccaagat gtccttcagt   60
agaataatgg ataaagtgtg gtacatccat tctggctggg catggtggct catgcttgta  120
atcccagcac tttgggaggc cagtgcagga ggactgcttg aaccaggag ttcaagacca  180
gcctgggcaa catagcaaga ctccattcta caaaaaattt aaaaaatcag ccacacatgg  240
tggcaagcac ctgtagtccc agctgttcag gaggctgagg tgggagggtc acttaagccc  300
cagaggtcaa ggctgcaagt gagccatgat catgccattg cactccagcc tggggataga  360
acaagaacct gtctcaaaaa aaaaaaatta caaaaaaaaa aaaaaaaaaa gtatgctaca  420
taaatacaat gggatattag tgtaagaag aaataaggtn tgaaacttnt gaagatntnt  480
    
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ggaggcccct aaatgcntat tagtaagtga gaaaagccng tgtgaaaggc ccatactatn 540
tgaattccag ttt 553

<210> 8003

<211> 514

<212> DNA

<213> Homo sapiens

<400> 8003

ctctgtaaca gatttaatta tttgttatga aagagatacc gagaacgtgg attcctgtgt 60
gaagtgcagg gacagccttt acagaatccc catctgctga aagatgacac ctacctgac 120
ctcctgaagg aacctctcca cacttttgta ggctttcgtg aacttgtgct taacaatgag 180
ttcacaccac cgatggcgaa cctctgcac cctgacccctgg aggtggtatg tcctctggag 240
gctttgcaga gttcgggggc tcanagtctt ctgctccaag agatgctcca gaagcaagac 300
cagctggtct ggaagaagct tttcaaacac ctcttcttc tcctgcgct tccgttttcg 360
gggtctccgg ttcactccaa tccatttcgt gacctcggcg cgcacttgcc gcgcaagccc 420
gactccgccc cggngcgacg cttccttntg ancggctttn gtattccgaa cttttnaagc 480
cagcntggga aaatgttttc aacaagaaca gntt 514

<210> 8004

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8004

agcagtttaa attttattga cctcccagtt tttaaaaaa gttaaattta aggtcacacc 60
tctaagtttg atgtactata tacagatcgt gcagaatatg agttaacag atacaaatta 120
gtccatgccc aaaaagatat actagggtac agaatcatct tcataaatac atataaaatt 180
cttgtgtaga agcgaactgt ccaggttttc tgagacactt ctaagtgaat caaggcacia 240

aatgtacata caccattgtg aatacacaca ttctagactt tgtgcctctg acatagccca 300
aggatttagc ttcatgactc ttataaaact aaatgtactg aatgagattc tgcttcttgg 360
gtgaaaaacc acaggaacta taaacatcat gtagataatt actccaaaat atggagaata 420
caaatacgac cctttatfff aaaaagcaac acaaaagaat ggtgtaaain ccagtgttaa 480
atgcctccgt tttggataat ttaantaaga accgatncag gttggttcca gaactatgca 540
tactagctct actgaggaaa 560

<210> 8005

<211> 541

<212> DNA

<213> Homo sapiens

<400> 8005

ccatatttaa catttatfff actttgctga gcaagaatca tagacagcta ctaccacggc 60
tgcttcgttt ggacaaaaat aacgaggagg catccacggg attagttaca cggtatcaac 120
ttaccaccac agcagaatca acagtgactc gctaattaac agaaccgttt gctagaaagc 180
actaatctag ttatataaat actgaaatag gtcacatgca aaacactata aacgttttgt 240
gtgatgtact tttagttctc catagttttg tttggataaa aggaaatata atttggtgtg 300
gacgtanact gttgatgtaa tttcaagtt ttctgtatg gggaaagttg ccctgactgt 360
ggcccttttc aaggtggagc ctccaacacc acgttggcag attcagactc cgtgaacagt 420
ctaaatgagc aagtcagctg aatgcccttt caaatggaag ggaaatgaga tggaacnac 480
naaaaaagga ctggcagcgg acagntttca acccgagntt tcgntgaatg gnggatccan 540
a 541

<210> 8006

<211> 568

<212> DNA

<213> Homo sapiens

<400> 8006

gaacttaaac acggagcatt tattgttaga aagggcaagt cttacactca aataggtttt	60
aacatgaaca cattaaagg agatggccct ggccccaca gtgtctgctc tctccaaggc	120
atgcttcagt tatactgcag cctggccaac cactgttccc tgtagaagtt gaagttcctc	180
tgtattatcc agcagctgga ggagacggag tatggcagac tctggaatgc catttgtgtg	240
agttccacct actttctagg cttcagggtg aatggaaaaa gtcgcaatag gcgaaatgta	300
tttctaaaa agctggacag aggtatgtga cattcctttg cttacaagc aaaacaaaat	360
caatgagtct ggtgaactga cgccatgaca gcaatgtgga gaagactggg aagtctacac	420
tgggaatggt gctgtggacg ctctgggcac agaagcccaa ttggaacct cttcttaaaa	480
acctgggaag ggtggtggaa ggccaancca ccaaaggcgg ggcttttccc anctgcttng	540
ggacaatctc tgggtctcct gggccagg	568

<210> 8007

<211> 562

<212> DNA

<213> Homo sapiens

<400> 8007

aaatTTTTTT taatagtcac attcagctcg cttgctcaaa ccagactccc acattgggtg	60
agcaagatga gcccatagga ttccagagtt aatacgtaac cgtatataca aacagccaaa	120
aaaccataat ggtgccacag ggatggagca gggaaggga tctctaactg gtcctctagt	180
ctatcttcgc taaacagaac ccacgttaca catgataact agagagcaca ctgtgttgaa	240
acgaggatgc tgaccccaaa tggcacttgg cagcatgcag tttaaagcaa aagagacatc	300
ctttaataac tgtataaaat ccaggcagtt ccattaaagg ggtaagaaa accaacaaca	360
acaaaaagcg agggactgtc tgttgactg tcaaaaaggc cttggagtta atgggaccca	420
ggattggagg actcttanc t gatacagatt tcagtcatt tcattaaan gcttggatgt	480
taagaagang acacttaacn ggttctgaag gaaacccttg anatggancg ttaaaaacgg	540
acagatgaac ncaanggatc aa	562

<210> 8008

<211> 556

<212> DNA

<213> Homo sapiens

<400> 8008

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acatggtgga agatttatag gtaataaagg gaacatgatg tacagaaatc tgaagtgagg 60
agtaaggtcc agaagcaact ggggccggtta cagttctcag cagtgaggtc cagaaacaac 120
tggaactggtt acggtgctca gcatttgcct tatttgaaca cagctgaaca ctacagcagt 180
tgtgagtggc agaagtttgg ctgttgggat tggccaggac tcagctatag ttacaggtgc 240
atactccaaa gttaggttat cagtccttct acctattaag ttaggttgca gttcgtccac 300
agggactcaa atctagaagt acagagtcct tcccaggcca tatttagttc actgtaacag 360
ttcctattat gacctcactg acagttcttt ttctctgaat tttcctttct tctcaacagc 420
ttgtccaaat gttccattgg gtccctgttc atcccaccct gaactcttct tgactgaatc 480
tggcctttgg ggggttgcan cctgnttctc tacagnitgg gccccctna gncctttcat 540
cggagggtta aaaccn 556

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<210> 8009

<211> 561

<212> DNA

<213> Homo sapiens

<400> 8009

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ggtgatttgt ctcttatctt tttaaagcaa tcagcttatt ttcacagaaa caactctttc 60
agcgcctcatg ttttattaat taatgtaata gctaagtaaa ctatgttatt accaataaca 120
catacaacag gtatcatttg ctaggaagca tcgggtccat cgatgagaac ccaacagcag 180
gtctgagagg tgccggttgc ccagagcctc tcaaaactca ggttctgacc cagcaagtct 240
gaggtgagac ctgagattcc ccccatgttg tggccacag gccacacttt agtagcaaga 300
tgggtggctga cattgtacat ttacaaagg aaacgccagt gccagttagt taattcaggg 360

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gatcaagtgg aagtcaactg ggaaagtgtc cacaatgata cttcaacaaa aaaagtaagg 420
 aaaaggaaag gtggaagatg agtatgttaa cttcctcatt tttcatagca aggagtacac 480
 aggtctgnct caagccatca tttcaagaag tagatatctc aatattttgg ttaaaatcca 540
 gtgggccatg gtctacagaa t 561

<210> 8010

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8010

gcactttaaa agtcattttt aatcctcgac tgtacacaat ccaaactctg gtagcagcat 60
 ctgacagggt aaataccaac tcttgtgcaa gggctcttta tatcctcaac ccctctgatt 120
 ctggaaccgg ttccctaaac aaaggcagac ttcttcagct tcttcagaa tagacattag 180
 acatgggtgac agtgataaac ctttgggggtg ggctagtctt tttcaacatt gatggagcag 240
 aatttacacc ctctgattca atccatctca gttaaagtca atgatgcctt cctatctact 300
 tctgctatcc aggaaccac ctctttagag tcaatgcatg tgaaaggctc atgatttgta 360
 atatcaagaa gtaggaagac aaagagggtt gaaggattct gccaaaggca aagctgtatg 420
 angctctctn ctgactacat gtacacccta tatttggata ctattccca ctggagtctg 480
 ctcttaaggg tccagaagca gggtcattgg gtantatcnt aactggcatt gccangtnc 540
 ctaaacagtg ccagtnccgt 560

<210> 8011

<211> 568

<212> DNA

<213> Homo sapiens

<400> 8011

gaagtaagat gaggaagacc tggactcata tgctgagagc tctggacaaa gaagtaatgt 60

aaagtagggg ccacagagct agtgccgggc caagtgaaag cagggagaga aagccagagg 120
 caggaaacaa gacaaatgca gaagtgtgag gaatgagacc ctgatggctt cctggttccc 180
 atctgctgca gggccctgct ttctgtgac aggtccctgg aataaatctt ccttaagcta 240
 aatctggtca ctggtcctac tcctagcaat caaatgactc ctagccacag atgtgtggcc 300
 ttgctatgta acacttttcc ccgagcctaa atttccccac caggaaaact ggtgacaagg 360
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 atgggtgaga tgcttacaag acagtagcaa tcatcactgt tccagaaaag gaacctggga 480
 tctganagg aaggggcttn acaangncat gccgatntta agggacgccc cctttttttt 540
 taaccagggn ggggggcctc aaaattga 568

<210> 8012

<211> 582

<212> DNA

<213> Homo sapiens

<400> 8012

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 atcaacaata taatgaaaaa gtagaacaaa ttagtttcca aatactgaac tcctgtaacc 120
 aaaacacatt ttggatttgg gaaaacacag taaacacata ccaaaaacac agccacaaat 180
 accaaaaaca aaaaccagct caagtatagg attgaactgg ctggaaaaca cttatttgtt 240
 tactgcctta agaacccccc ggagcacctt gtagctcatt aactgcacat tttccttagg 300
 ggggaaacaa ggtcctctct cagtcacata tgcataagga aatctcaaaa cccaaaggcc 360
 atcaggtgga aggggtgattt cttgtttttc tgggtagaat accggacatg gtggtgggcc 420
 tggctgaacc tgaggcatta gtattatctg caaaggagca tcaggaaccc aacaaaaagc 480
 ctcataagtt gagcataatg anggttcagc cttttanctt tgagaggtgc ngaatatatta 540
 agggcatgtt actattttaag gcttttttaa gtgacccctt gg 582

<210> 8013

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8013

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ctgttgcatc cgtgtgagct ccataaatct gctatggaac agaactactg gttcttgaat   60
ggaatcagtt gtgctgtttg ctccctcaga tgtctgcttc ccatagatcc taccagaaat  120
gaagtcagaa tcttctcttt ttctctctag atgctgcaat cgcttggaat cttgttcaaa  180
gattgagctg tgtaaaaaac gagaagcaaa caattcctgc ctctcttget cttcttcttt  240
atggctctct ttcttatcat ccattttccc ttctgaatca gtcctaattt tcttcttttt  300
catgtaccag gatggaatag gtcttggagc agagtcaacc ttttctttat ctttgttggt  360
tcgaaaattt gcaaactggg agtcccaatc aagaaaagac caattttctt cactgagatga  420
agagagggat ttagctcttt caagcaaagc ttiantgnct ggtgtgattg gcttatcaat  480
gcaaagagta aaatttgggc ctttctaaag aactngagag ccttcatttg cttacggaac  540
ttggctttnt ggccttaaaa                                     560

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<210> 8014

<211> 547

<212> DNA

<213> Homo sapiens

<400> 8014

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gntatttaag gatttgttta atgttttaaa attcaaagca ctttaaatta ttttaagaca   60
aaagattaat aaaaacaaca ttacctttca aatacaactt tataacagca cagtggaaga  120
atggtaaaca gtccctcttt ttttaaaaaa aaatcagtac ttaaaaccaa aggaaggctt  180
atatgtacag ctaattcana aagggaacaa tgacacctaa agacatagat aaatgcttca  240
ttttaatcca ataatgtcc tacctactgg atcttaataa tgatgttttc aatatgccat  300
ttaaaataaa ctatccttga aaataaagtt ttaaatcatt caatataatc tatgaaatag  360
catctagtta actagattac cttaaataa ccaaatatta taatcagcaa aataaaaacc  420
agtaaatcaa tttgtatctg aaagcctgag gtctggatct actgggattt taattttttt  480

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tccctaagat taacaatnta aacaaatctt ttinggtactc acatattttg acagctcagg 540
ctggctcn 547

<210> 8015

<211> 569

<212> DNA

<213> Homo sapiens

<400> 8015

gaaaaatgta actttttattc tgaacatgta gtattttatct ttattagcaa tttttttcat 60
aatataagca tgcctcaatc atccaaaagc tatctaccta tctatataaa ttgatataca 120
tgctactgaa ttgacttctt aatagaatca tatggtaagt gttataatga ctaatcaacc 180
tacttctgat aattttgggtg taaacaaaaa tgatatttaa tttttattaa atcaagtta 240
cctatcaaat tcccttttag aaaaacactg caagtttagt cttaccaaga ttgcaagtaa 300
attttaaaat tatgggtgctg taaataaaaa ggttttaagt tgaaatgtgt actgagatta 360
gccatatcac aaaagtccta tcatgggtaa tgaaaagtct tatttttaaat atattttgggt 420
tccttttctt tgacatggng gcccaagata agaagggctt atttttaaan gccagaaca 480
gtttcacaaa atcgaattaa atttattcta ccaaaacctt gaactggnta gnctatcagc 540
aattggccaa tggatggatc caaataatg 569

<210> 8016

<211> 579

<212> DNA

<213> Homo sapiens

<400> 8016

atgttttaaat tgcctatggc atatattaca taatggctca aaattaatag tctggctgaa 60
attaagaaaa acagctgatg atgacttagt aaatccttaa ttttaagtaa gcttttggcc 120
aaaagtcagg ggtagaattg actcaaaatt aacagccttc accatctttt attcattctg 180

ctgtgataca actaaaatgg ccagtaaatt ctcccctggg tctcaggtaa cagttttcca 240
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 ggggtggacag gctgaaacac tggtttcttt ctacttcag agtgtgtttt cactgcaggg 360
 agcagctgat tccttttgat gatctgtaag gccagctgag tattaccatt ctgcagttca 420
 aggtagactg ccagcaagat ggcctcaggg ggcacctctt tangatggat cattgaagcc 480
 gctgggtggag acctttcggg ctttggcata attcgtctta agcagtaacc gctgccaaagg 540
 ttgacaagat tacagtcctg caaaatgacg gactgggtn 579

<210> 8017

<211> 587

<212> DNA

<213> Homo sapiens

<400> 8017

ccttatccag aaacatttta atctcttaaa aaacaaagca aaacaaacaa acaacaaaaa 60
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 gctacaaaac atcagaagat tttttttaat gtatcttctc tatggtaatt aaaaaaaaag 180
 ttgtgccctt ctagtcttta attggcagaa atatgtccca aaaaagaaac tattgcattt 240
 aagccacatc accaaaaaac aaaaaagaaa aaaaaaaaaa aaagcaaac aaaaaaacaa 300
 aaccaacaga gcataatacc cttttactga tgtgtcttac agattgacat gaccaaagtc 360
 ataggttttc atttaatttc caattcccc ttccacaaca tgcaccaact gaatatatgc 420
 tctgggagcc ataaaatgta ccaaacatct acctnttcaa aagaatgcat taaaatattt 480
 aaagaatttt ttgntaaaaan ggggaaaaaa tttanccaga aactggttcc ttccttactt 540
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<210> 8018

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8018

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gggattagga gaacactctt taatgataaa gcctgtccaa gtactaagga caattagagt 60
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aacgtgctgc ttacatgaag ggagatgata ctgagctaag aagtcctggt atagagaagc 180
agagagacca acctacttca tattatttat aaaatagaga atattctcag ctaacatgct 240
gggagaaaaa attcttccaa aaaggcagaa ttacaatcaa tgccaagatt tacaatttcc 300
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tccccaacta tagcttatct gttagcactt ctttatcagt ctgactattc tttaaaggcc 420
ttaaaacatg aatttgggat aaaaacaaat aaaagtgcc aagntttaag aagccatatg 480
ttacttanga ngtatctata tatttttaga ncaatcaatg gtttttaaaa agngnanaaa 540
ctgggacttt tctctttaaa aaagggtaaa tattcnc 577

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<210> 8019

<211> 583

<212> DNA

<213> Homo sapiens

<400> 8019

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atgacaaaac cagaatgttg aatgtttatt gcatcaaaca acttgatcat tatcattagt 60
agcaagctgc cacacaattg caaccgctgt gtttttgcca taggcgcccg ctgggacacc 120
caagcaggaa ccattgttga agcccgtctc aaggagctgg catgccctat gccggtcatc 180
tttgcaaaag ccacccccgt ggacagacaa gaaaccaaac agacctacga gtgccctgtg 240
tatagaacca aactgagagg ccccagctac atctggacct tcaggctgaa gagcgaagag 300
aagactgcaa aatgggttct ggctggagtg gctctgcttc tagaagcgta aggtaacact 360
ggcattcctc tagcctctgc tggagtgcag tgaggatttt ctagcatgtt gctgcactgt 420
tcccatgcac attattctaa ctttttagta actcacacgt gcattctttt ttcaacgcta 480
tccttagagt gaaagtcaga aaaaaatact agaaactaac tcanggctga acgtggtggc 540
acacgactgn aatcccagnt actcaggang nangagaatc ctt 583

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<210> 8020

<211> 582

<212> DNA

<213> Homo sapiens

<400> 8020

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gttttctgta aaatattgaa gagatttatt ctgagccaaa tatgagtac catggcccat   60
gacacagtcc tcaggaggtc ctgagaacat gtgcccaagg tggtcggggc acagcttggt  120
tttatgtatt ttagggaggc atgagacatc aatcaaatac atttgagaaa tacattgggt  180
tgggccagaa aggcgggaca actcaaaggt cggagcaggg gagggaagct tccaggctac  240
aagtgaattt aaacattttc tggttgacaa ttggttgagt ttgtctgaag acctgggatt  300
gatagaaagg aaatgttcaa gttaagataa agattgtgga gaccaaagtt ctttgaagtc  360
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aggtgctaga gttttaatct cctcaggatt gggagggtct ggaagaaaaa gatctagcta  480
tgtaacagg agattcttta cagatgcnaa ttttcccca cacaaaacac tttgtagggn  540
catttcaaaa tatgggtaaa cccattttga ggnaaactct tt                        582

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<210> 8021

<211> 572

<212> DNA

<213> Homo sapiens

<400> 8021

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ctgactcttt taaattgtat ttattcactc cccaccaatt tgaaaaatct tgtaaattac   60
agagggtttc ctagtcatta acatgaatta gtaatgctat aacttaattc aaaagcaatt  120
acttcttaaa aatagggcgc ataccaggaa agcttagcat cagccaaagc tactagcaca  180
ccacgggcaa aaggccaact ntgcagggat atgtaaaggt cattttatgg ataatccata  240
taaaaactgc tctcaagata ttttgcccat canaatttgt ttacaaatgg aaatctaatt  300

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tgatgatttt aggcctttgt gctanaatct cacaaccaga aagaataaca cctttaatat 360
 gaattcttat gatattgtca gaaagtttaa caggagtat ttaactcct gttaaaataa 420
 tagatgacag taaaaagaaa ttcaaagggg aaagaaacaa tntacgaaaa agctttgggg 480
 taacagatgt tgagcctaca ttaaaaacta tttattttta aggtttccta tgtntaagac 540
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<210> 8022

<211> 528

<212> DNA

<213> Homo sapiens

<400> 8022

cagacagaca gatctttatt agtgttttca acttattttg ctcaactt cccagcaaga 60
 aatgtcttac attgcaacca gttctcacat ttagatgtat gggtgaaaag tttcacaaaa 120
 cagtatttgc ctttactaca tgatgcattc tggcctactt tattctgctc cattgctgtg 180
 taatgctggt gaccacttgc taattgattt cccattttac taaatgggct gggacccacg 240
 gtctgaaaac cctgccttag gctgcaagca tttctngat ctctgcgagc tactccatat 300
 aggtaaacac acgcgaggta aactaggaaa cagcttctgc ttttgcat tanaagtga 360
 gttgacatca cgccaagtac gaaaaggcta aacagntgac aaaatttcca cttgagcaac 420
 cctggggagc gcaaactga ggaatcnggg cangntgac ttgaagaaag cactgcngat 480
 cacgcacttt aaggcaacct ttaactgnac aatgcaaata acctaacn 528

<210> 8023

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8023

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 cactgagccc ccaagagtcc ttttggtttt actggtgtca gggattacag tcagcaaacc 180
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 caggaaactc tggctctggca cagcagcagc agggatgcca ctctcccttt gtggaatcct 300
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 aaagtacctg ggagagctgc aaacagccat ggagataaga gaggcgggga gggaacacag 420
 tgactgagtc tgagagacag caaagcacct ntccagcgaa agccactccg agatgcagcc 480
 taacttccta atttgcata gcaaggatga agcaggcnca ncatggaaag aacacctggg 540
 ggtgtaactg gttaccacag ctttaaccaca nttccccana aacggagg 588

<210> 8024

<211> 583

<212> DNA

<213> Homo sapiens

<400> 8024

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 ttggccaaga gtcaaaaaaa tgcatttaaa ctttggaaacg tgcccacata agacaggagg 120
 ctgatcccaa cagtagttgg ggcagatacc cacaaccaa agggctggga aagtcaggaa 180
 gagctgaaag gattcttcag tcagtttatg aactcgggtc agtgagacct ctagactgac 240
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 cctgcttctg tcccatgcag cactgtgcga ccgactggaa taacttttcg atttctgggg 360
 cacagtgtac aaattcatgg ttccagaact taaacgctgg gtttttaac agctcaatga 420
 aggtaataag aagaccccaa ggatgtggcc tatttacaat caaccgttc caagagaact 480
 cttggtgatc tgntcttggg tggcttccgt attggccttg caaaaaggta cagcatgggtg 540
 caactgaata ntgagtgtgg ctatttgggt accggaactt gat 583

<210> 8025

<211> 508

<212> DNA

<213> Homo sapiens

<400> 8025

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caatggaaaa attttttagt aaaactggaa aaggctctat aaaatgtcct gactccagca   60
gtcttgaggc agcacacaat ggcatcagtg tctaggtggc aggcaactcc ggctgacagc  120
ttccttctat ggctctatga ccaagcaacc cagcccaggc cagctccac cagtgaggcc  180
ctgatattgc agggctaagc acctaggatc caattctagt acatgccacc tcatgctagg  240
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gcctaggctg gagtttcgca tgaagtcccc gattccccctc caggttcatg cggcctgacc  360
tactgcctt gaatctgacc tgctcattcc tacctnaggc cttggatttc cttttctctc  420
tgctgggtc cccttcgccg gatgttcacg nggctctntc cttctanttg tttaggcccc  480
aanttcacat gcccttnngt ttcanaaa                                508

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<210> 8026

<211> 596

<212> DNA

<213> Homo sapiens

<400> 8026

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gttaatagtg atggggtttc accatggtgc ccaggctggt tttgaattcc tgggctgagg   60
agatccacct gccttggcct cccaaagtgc tgggattaca ggtatgagct accaagccca  120
gcctgcttga catttatact atggaacact ccaacaagta aaatttaaag ccagctctca  180
tgacaacaaa gactctaccc tcagcgccaa catttctcac tacttacgca tttcattttg  240
gttaagtatg atgtgcctgc ctctaacct ctaaggcaag aacaataaaa catatacaag  300
ggacagccag cctcaaaaag gtgacttgtc tcccacaagc caggttctct gcatggaaac  360
tgaagggtgt cttatcttcc gattgtggag tttattacat tttggtatca caaaggaacc  420
aactatccag aataacaaca caagatgttt taccttatat atcttagaaa ttttaaaagc  480
atganctgtg cgcctccgga tgacatctgg atcantcgtg ggaaggaaat ggattgtana  540

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ataagggttt ggcanttga aagggttaa aaaccangac cccttgntt aaangg 596

<210> 8027

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8027

gcttaggcta aaaaagttaa taaaagctt caccttgatt ccattatgac ttcttattat 60
tcagtttccc gcctgtacct actcattatg aactacagta ctggtgtcac ttatacgta 120
tcatatttct tcatatcttt gcagcactgc agatgacaat ctacaaagaa caagttacac 180
agcaaaatat cagtcataa aatgaagtcc ttccttattt aggttagctc agtgattaag 240
gatcttcttc catatcatct ggattaggag ccataatgaa gtgccttggg tatacaaggt 300
tatgtgtgta tgcattgtatt tcccagcgag catcatcact ttcatgtgta atgtaacgtt 360
ctccaatgcg agtttcaa tctctaaggt caagccaagt ctgatagtcc tgtagccagg 420
gatgactaag agatttgtca acactgtaac gttttctcat cttcacttga agcagattgg 480
ttatcagaac aattgcttca ccagaaattc tctccatgga ttgggggga cataaagcng 540
cattttggat tnggcantta nacttnatcc cattaaaagg naagggncc 589

<210> 8028

<211> 570

<212> DNA

<213> Homo sapiens

<400> 8028

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ctgggggaag ccaactgaga ccccgaggc ccagcaggag tccatctgag gtacagaacc 120
tgtgcttctg ccatgttcct ggggcagggg cattccattt cccctgatg ctttctcttc 180
ctgaagagaa gtccaacaga ctgccagccc aggtctgaaa tgcagggtgg gactcctgaa 240

cacagtcggg gggatggggc agaggcaaac agccctcctg tttcacctgc agacagggtg 300
 ggccanagtg ctatggagca gactgggttg tggaagcctc gtgtgctgag gaatcagtcc 360
 ctgcacacag gagcctgtgc gggggccagc acgcatcgca gcctgcagta caagcctgtg 420
 cttttccatg ccttccggtg ccaacacccc gcacgggtgcc acaccaactg ttccaactaa 480
 catgctcaag tggcacaagg cacaagcann aaacgttntt ccaacccaac ctgggcanaa 540
 aaaaggcnag cccangngaa ccaaagtcct 570

<210> 8029

<211> 531

<212> DNA

<213> Homo sapiens

<400> 8029

catgagaatt attacttata ttttacattt nggnctaata ttttttctg acaggtatca 60
 atgaaagcag aagaaaatcc actccaatac ttagttttca agacacgac ctaaataattt 120
 aaacccttg tagctggcct ataatatata tatattanat gttatataca gtanacttac 180
 caagtcaata gtttaagcaa tcaagccact tcactgttca gtttctttac atcatgaaan 240
 gaatactngg tattaacctc tcaaatttca agaaaatgta gaataactac agatgtatat 300
 aattagcatt taactgtcca caaatacttt aggaaatcct atcatagggt ttcctctata 360
 taaaactggg aaaaaaccan gaattaagtc cttttggnga atatacaagg cantgtttag 420
 ttcatgtggc ctggaaaata tatattagan ggtatatccc ggnngacttn ccaggtcaat 480
 ggttnaggca atcaagcccc ttcactgntc aggttcttta cntcttgaaa a 531

<210> 8030

<211> 465

<212> DNA

<213> Homo sapiens

<400> 8030

cagagtgaaa caggagtgct ttatggtctg agtggagtgt ttgggaggag tgcctcccgg 60
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 cccactccc agganaggcc tcacatgctg ccttcggtct cgccagcctt ctaacngggg 180
 gcctgggccg ccctttaggg tgagtntgca caccctgtgt cagggtctcc ggccggaagc 240
 ggaaccatan gcatgctgcg gccccagatg agcgcgagg gcaagcaggt gccggggcan 300
 cgcacacccc acagccaagc ggtccctgcc cagcctttgt aaacagaccc tnacaggtcc 360
 ctctggggcc tcagtcacat ccctgagaaa cactggcggn tctgccccga naggncagg 420
 ngtgtncacc gaacctggct gaaccagntg cccttncctt ttgca 465

<210> 8031

<211> 575

<212> DNA

<213> Homo sapiens

<400> 8031

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 actctctctt acaaatgaac actatcactg tcgttgaaaa ctttcttgag atagtttatt 180
 ttatacaaac aaactgtatt tcttattatt cctgaaatat ctcattttgg catcctgcca 240
 tttcattgta gtgcctatca tttttccatt gatactgata aagttgccta agacacaact 300
 tcctacatag aggaaataag aggaacaaac cccttttgga cagaatctat taaaactcat 360
 tccactatcc ctatgtacat aaataacatt gcctctgctg agtggaattt gcattcgtta 420
 cttcaaaatt cagactcacc tacctttcca agtttagacag ttggggaaag aacttcctaa 480
 atcttaaggg tgaaggcaga nggctnacc cacttcagat caggcaaggg gaataggaaa 540
 gnaaagtgcn agataganct ggnggcctnt tgggg 575

<210> 8032

<211> 566

<212> DNA

<213> Homo sapiens

<400> 8032

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agcatgcaac taaatgtatg tttttattat gaaatgtaat atgccaagat tatgtaaaag   60
atacagttct aatttcacac aagttcacca gtaatgggtc tcccagcttg ccagtttagga  120
agtgctctgg gggagccacg tggccaccac ccaccccagc acactcagca gcatcgcatg  180
tacacatggc ctgagtgagg gacaatgagg gtaattcttt ggtagtgacc ctcaagacat  240
ctctctctgt gcacttgtgt tcccctgagc tcagagaaga cctaactcca tgatttgatg  300
tgcatgatga gactcaaaca agggctttgt atagattttt taaaagggtt gggttggggg  360
ggagcggaaa aaacctataa atatgcctat attcaaacat taactgnntt acttaatatc  420
aaatcacttc agtacaaatg tcanaagaga agtattattt gcatctaatt aacctaaaga  480
cacagnaca cgggatatac tatacttcca gaaaaatccc antatctacc ttcaaaggng  540
actnnnaana aagaccaagg gatttt                                     566

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<210> 8033

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8033

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acatggataa gtgtattata aatttcagtg aaataaagca tctgcagtgt acagtttaca   60
aatatagtat acagtactca tttttgtaaa ttgtatatga ccaattgatt ctgcagaaaa  120
acatcggctc atttctggaa aactcgtatc tgcagggaga ctgtagctgt atttgaccag  180
ggagggtagg cccgacacag atgctagtga atgttcttat ttgcattaat gagtaagaca  240
aaacaaaaac gacaaagcag tcagtgtgat ctggtttgtc agtgacttct ctgctgaact  300
gagtaattgt ttttaaagtc cagaagagtt cttcaatttt tttgctgttc acagtgcaat  360
ggcttcaaca cttttaagtc taatctgcat tattaacacc ttctccatca gtctgagtta  420
aaggccagct ctgggtttgt agcacttgct gccgtctgca gcgtcaatgc atcaccngna  480
gcccacttca agctttcacc ttggcanggc tgacaggaac acccggcgtg ggacncctaa  540

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acnggagacg cttctgggga ccgtccagct tggt

574

<210> 8034

<211> 538

<212> DNA

<213> Homo sapiens

<400> 8034

ggaacattag ccatgattat tttaatatc tcacagcttt gcaattttga gaatatacta 60
gcattatata agaaggaaga ggagaaggag gaataagagg gaaaggagga gaaagagaag 120
ttggtaaaca gaggcctagt taagaattcc ttgccctagt ggtgaacaag gactaaacac 180
agacaatggg tgaaacacag acgctaattc acataacaga gagtaggcaa ccttaagaat 240
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gaatgcaagt gtttggcttt gtaatacaac ttttagtat ccagaagata accagtgtc 420
taccaataaa gatcttttga tcaaagggtt ttacttctgc cagtcttact cttttttca 480
ggtttttata ctttcttaaa ccacncctnc cttatgnnaa atttaagaan taatgnnc 538

<210> 8035

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8035

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aactcgacac ttttctagca ttcttgaact aattcacaaa tgcaagaaaa taaaagaaaa 120
atgagggaaa tgatgaatgt aggtagtctg gtgttaaaaa ctaatgcagg aatgatgcgc 180
attgtcacag aaagaagagg ggaaattccc catcctgttt tgcgtgctat gagggtcatt 240
tttaaaattt ttattataaa cactattaaa ttcagaccgc ttttttggtt tttttttct 300

ttatctgaat atacaagaac attcattatc aaatgttcat catcaatact acaaagaacg 360
 agacacaagt cgcaagaaac aatggaaaat gttaataaag ctgaaagaat ccgttgagta 420
 tttttttggt tcttttaaag gtttttttta aatttgagtt ctgnaagttc atcttttttg 480
 natcgaagca ggttttctgg ggcagaaaaa ccaagagcnn ggaaagagag agcccagagag 540
 gaaagatgtg tganaaaggc canccnccaa ttaagga 577

<210> 8036

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8036

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 caacctccgc gtcccggggt cagccattc tctgcctca gcctcccaag tagctgggac 120
 tacagacgcc gccaccacgc ccagctaatt ttttgtatit ttagtanaga cgggggtttca 180
 ccatgttagc caggatgac tcgatctccc gacctcgnga ttcgcccacc tcggcctccc 240
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 ngggcttaaa ctatcccaag ngataaacc aggggctttg agcgattcc aggagctgct 480
 ggtccagctt ggctantatn tatcagtaag gnattccnga agggcttgga gtcaacttgg 540
 ctgggtatgc cttaa 555

<210> 8037

<211> 567

<212> DNA

<213> Homo sapiens

<400> 8037

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tctattttaa ccttaccctt taaattaggt agttctccaa gactacatgc tattgtgggt 120
ctcaatcttt gttccactgg agaaaactta attagtgggtg aaagagaccg ttttctttca 180
ccgatggacg tgcgtaaaga tggctttata tgctcagtat gcaaatcaca ggtgtccaaa 240
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ctgtccctc ccacaacatc ttctagaaga gtgccaccat gcataggact atttggttc 480
agnttaaaaa tggcccctga ctactggact nttaaactta natgaccact tntttccgga 540
aaagtttngg naatatgccc aaatctt 567

<210> 8038

<211> 581

<212> DNA

<213> Homo sapiens

<400> 8038

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gaaaaaacat gataaagagg aggcaccaa cttcagtttc ataattgaaa ctgacaacgc 120
cagtaaatca gggcctgcat tcgaaactac aggttatttc aggctcctta cttgtaagta 180
aacaatgtaa acagcatatt ttactctgc ttigtcaaga ccccatggt gggaatgtcg 240
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aattccaact gcaatattag acttagaggc caataccaaa tatgagagat atgcagcttt 360
gaaaagagat gaaaactcca gattctaccc agtaccatct ttaaggcgaa catgccagat 420
aatgagtttt ccttggtttt ggtttttctt cttaaagaat ccatgttaac cactagagaa 480
cagctntttt cttccccagt cccacagatt taaataaact gnttaaaactt ttggaaaaac 540
ccgaantatt tgagcctaan aaggaaatgn ggaatgncnc a 581

<210> 8039

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8039

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agttgtcttt atttaaaaaa tgaaacacat tagttacaaa aaccgttgct ccaaatagat   60
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tatcataaat aaatgattat ttctttctca gaaagctgat tttttagtg tagtattttac  180
aaataccgta agtgaaaaat gatagtttat aaatttgtac catttaggaa aaaatgtttt  240
atgtagtggt gtttgtgtaa cagcaaataa aaccatttga gattatagtt ttacaaggg  300
tggtaaaacc tttaaaacag cataatgtgc atcgtatgcc tttctgacat tagcatgcaa  360
aaacaaagct atttgttaaa atagacttat ttttgctcca actaagtaaa catgtaaaat  420
tatttttaat aagctcaata gcttanaagg catcttggtt aaaatgaaaa ttatttaaaa  480
caatatctag cactgnaccc aaagcttaca gacnactgca atggcnctgn gcctanttca  540
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<210> 8040

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8040

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tcaggcagtg ttctctgtca gaggctcgga gaaggttctc ttgcttcttg tagctttgtg  180
aggatccacc tggcatcctc tggggctctg aagttaatta tttttccaaa ctctctggca  240
tgaaatacag acttcactcg ttcctttgct tcaatgcgca atcttctccc atgaacaatg  300
aatggctctt tggtaaattc atcaaaaacta tactgccact cacacgtgag ttgtccaaat  360
gttccctttg ttacaaacaa tacaccacgt ctggttatca ttagcatatc tgtcttattg  420

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atcatgacat gggtaaaata tttgnatttt gcaaattcttc cattttccat gacctgnaac 480
atttganttn caagcccatn ccttaacctg taccggctga tactccatct tcantgaaga 540
anc 543

<210> 8041

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8041

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gatcatatat gaattttttc taaatgttca agctaattgc tticattagt catcctgaac 180
tgctgcaggt ttcattttccc accaggacag ctgtgccttt taaagtaaaa atagtcattt 240
gtattaacta taaggaaaaa gtggcttcag ctggaagaac ttaccaaccg aaacactctt 300
gagcttatag aaataacttt ggtaagtggc ctctcttaaa aaggctgctg aaagctctaa 360
aatataagga taaaacatac ggtttcagac tgtacacttt gctgctacaa actacatctt 420
gatgggatta agaggctaca ttgattcttg ggtttattgc accaccatcc ctctctgacc 480
taccatggc tgcattctgaa acanggaac tncagaaga aatgaaaaca gngggnccta 540
aagcacttnt tccaacagcc attcttacat ggtt 574

<210> 8042

<211> 576

<212> DNA

<213> Homo sapiens

<400> 8042

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agaaatttct gacagtactg cccatcatgt ggtcagccat tatttactgt gtgtctgcc 120

catgtcggca catatatata gctcttcctc tcctttcctg ggagcaaacc cttagcgttt 180
 cttccacgta aactttctgc gggctccctc ttggcctggc ttcttccgtt ccctcacacg 240
 tggatcagta gtaagtagtc cagcttgtct catccactcg acctcgtcct cggtgacaaa 300
 gctgcacaag gcttttgcca ttgccagtcg tattgctcca gcctgcgctg acctcccgcc 360
 ccctgagact gtgcagggtca cgtcgtgctt tcccagccgg tcaacaaagt ggaaagggaa 420
 catcagctgg tctctgncct gtggtgatcg ggaagtaaag ctggnaatca ttaaataaat 480
 agtatgactg gttgncagta tngaagaaaa tagtgaaatg gaccgggcat ttttttccca 540
 ctggaatggt cttggcnttg gaaaaanctg gtcang 576

<210> 8043

<211> 569

<212> DNA

<213> Homo sapiens

<400> 8043

aaactgatga actttattgg agttaaact ataacaaagt tcctcctaaa acactttgca 60
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 ttttcaaaag cagaaactca cattcataaa actttataca tcatttgaac taaaatacat 180
 ttatactact aaaatcaaac atgcatcacc ttcaaacatt cttatatcat gatTTTTATA 240
 tattacatta tttaacacca ttccatca ctacatggat ttatcatac actggcacca 300
 ttctccttgg atttttgatc ttgtcttca ttctttacat tctcttctt gagaacagtg 360
 tggatttcat ccattaccgt agataagttt ctgattgtct tattcatttg gttttcaa 420
 tgtaaactca tgttttctga aatctttaag tttcttigna actgactaag ggccttttta 480
 acttctctga gttccccaga agagcntttg ttggaaatct ccaatttaat atggnttttc 540
 atcttcatcc ggTTTTTctt ctaagaacc 569

<210> 8044

<211> 565

<212> DNA

<213> Homo sapiens

<400> 8044

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aaagggtgta aaaagccagt gttcattgat gttatccaaa tgatcaaaat aatgtatgca 120
ggaaaagcat atgaattagt cctgtactga gaatcatata tttcaaaaaa attaagatta 180
gtaacctaat ttttagtgac aatagattca tgtactatgc aatagaacca attgaatgac 240
actggtggta gtcttactcc tacaagaaca tactcaaagg caaatgcctt atatccacag 300
attcaaattg aaatttctta tatttgaatt ttctcttctc caaatgcttg tatcagtaag 360
tgccagatca aggcaatcct tgtatatatc caaaaactgt atctataatt caatgccatc 420
cttttctcct tcattctcta ccaaattagg gggtagagtc aacttttttt ttttgagaat 480
ggaggcttac tntgtcncca tctggaatca ggggcacaat cttggntact ggancctggac 540
ttccaggcca agcattttta gcttg 565
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<210> 8045

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8045

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ggatttgaat tatctgactt tatttagcat gcaatgcaat ttattctggc aataaattaa 60
tatgtgcagt tataaaaagt gttgggtact tttccaaga aaaatgtttc tgaatgtgca 120
cactagaata tatgcagaat cctttaaca gtcgacttca tattttaaac ttgtaagtgt 180
ggtaacatca agttttggaa gaatggactt tttctgtaat tcatgattta gtttgagttt 240
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gacagctgag aaaggcaatc acctgatcga gtctcctaata tgtagagctg aagaatccaa 360
tgcccttgcc aaagattacg aagctaaaga gacatagcct ggattacaag tcagttttta 420
taggtgctcc aggaatgtct tgagctaaat aaggcacacg tatcacacag aacttttagtc 480
gtatcttcaa aagtcagtt tactctgntt tctctttaat ttttaagcat gaaggcttgc 540
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ctgttacaca gcttgaaccc catgggggta acan

574

<210> 8046

<211> 578

<212> DNA

<213> Homo sapiens

<400> 8046

cagtccaaca cactttattc atttttaact tttttcttaa ttttcaataa tcaagtattc 60
aagatgctgt aaaccaagat tagtacatcg acaacagatt tcattaaaca cacggaaatt 120
atacatcttt taaattacct taaaagttct ccaaataaat atcattttta aaatcacaaa 180
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aattaacatt tggggtttgg ggtagaggta tgtattttta gaaaaatgcc cactatttgg 420
tactactctt accaattatc aattaccaat tggccaataa tcggnactag tcttaccaat 480
gattcttatt tttcattcta gaatncaaac tttaaacctc ttttggtcan ccctttgggt 540
taaaggggnc ctggaattac nttangttca anaatatt 578

<210> 8047

<211> 558

<212> DNA

<213> Homo sapiens

<400> 8047

cagtacaatt cattttatta ttttagtgca aaaaaacatt tccagattta tttccaattt 60
cagtttcaaa acaaactgac ctgaaatttt tagtatttac tatctgtgac aatgaccaat 120
aaaatgtgta agaataataa aaataaattc attcattgtt ggtagtactc caaattcaat 180
gcataanaac cttttctatc taaagcattt tcctaaaact gcaaactaaa aatctgatat 240

ttaaaacatt tatgtggtaa aataatctca ttigattatg gatatacataa atagaatata 300
 aaagatatta catttcttca aataccattt gtttcaactgt gttcaatttt gagtttccta 360
 acatccattc tacaggtcaa tcaaaatata aaggcgtgca aatgaaacaa gctattgaaa 420
 tgaaataaaa ttcangaata aaagttagaa ttaacttatg angnaacttt tatgtaagcc 480
 aacatcccag tgtaagaaat gcctctnttt acaaaaagca ttaagaagcn canttttcta 540
 naactattat ttcattggg 558

<210> 8048

<211> 598

<212> DNA

<213> Homo sapiens

<400> 8048

aaacactgga agcaaatgat tatcaaaatg agactgcaac ttaaggcatt ttaaaagaaa 60
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 ctagcaagag taaaacacaa accttttttc ataaatatga ctacagtaat cataacacaa 180
 aaaagggttg ataggcattg cttagatatt taaaacaagg gtaatacttt ccactcacc 240
 taaaagaaaa aacctttttg attaccagtt tataaacatc ggatttgcta tgttaaaaag 300
 tccagcagaa ttttaattca gcaacactgg agaatgaata tatatatata ggcatacatg 360
 tgtatgtata tattcatttt atatatagtc aatgtattta ttaggcattc cccacaaaa 420
 gtaatttata ttttaattgcc atttttaata aacacttatg ttcacagatc atccatctgg 480
 cntatatgaa antaggcaat atcaaatgtc ctggtatggg ctccgcttct tcggaancat 540
 ccctggaagt tccagacttc ctatggggcc tgaaaanttc ttggcanggt nataaatc 598

<210> 8049

<211> 604

<212> DNA

<213> Homo sapiens

<400> 8049

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agaaaaaaca agatttgtat tttatttcct tgtaaaaaatc tttacacatg cagacaaacc   60
agtgttaaga aagtattcac catcatttaa acaaataacc acttaaataag aacagtgtct  120
gcaattttat ctgtataaaa ataagataca tttttacaga attcacgctc cagttcttat  180
agcaataaac aatacacaac tataataaag tacaattgaa cctgaccatg gtttttaatt  240
agatactgct agggcatttt aatgtgcaaa aaaattaaca tagttctttt caaaagaaac  300
tgtcctcagt gttctagaga cctagagggt ttcaagaaat caaatcctaa tcagtttgcg  360
tttaatgttt ttgattgagt ccatacatca cactgtagat aggcaaaacc aagaactgat  420
gcaggctcaa aggaagagaa agtcagcgcc tgtgcctgcc atggtcctga gcgactgncc  480
catggtgctt gcttttatng ggacctcttc aaaggaccga agaacggttc acgccctggt  540
ccctatgatg gcccttttta tgcctggggg ttcttgntg natctgagtn gatcccanan  600
ttgg                                                                    604

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<210> 8050

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8050

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ctttcccaac caggttgtcc tggctcgaga actggcaacc tccagagaat atgcgagtga   60
gtatgggctg caggagctg tgcgtccggg agcagggcaa gcggctccgt gcagggcggc  120
tggggtggca gggccggtgt ttctgtgctg atttcagggt acaggacact gtttgcttta  180
gagaccacca ggctgtttgt tacaatgttt gaaagacttt aatttgtacc agttaccttt  240
gtgagtcatg tctttagtgt tttttgttgt ttctgatagt aactcacttc tctctcacct  300
gaagttaaaa ttctggagaa gcgacatata ataaaagaga acaaggtccc ctatgtaacc  360
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tttcaggacg acgagaagct gtgtatcctt tgcgtggttg gtgcccgtg aagccacacc  480
agtcaccctt ttacttgga atcagaccct gtgngttcca caagcagccc cgttccttgc  540
cantggggnc ccttaggccg ttacantnag g                                                                    571

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<210> 8051

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8051

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aatgaagaaa cttgtttaaa attgtaaagg aaaaaatggg aatgggacgg caaaatctta   60
gcagcaaagt ggtaaaca aaattgaaata ttaatgcaca aacattaataa tattaagca  120
tatatgttgc atataaaata cagtacagaa ccaggagttg cactatactg attagtgtt  180
aacagaagaa atgattaaat ttgttcctcc cagaagtata tacacagttc atttccacag  240
cattttccta tatagccagc aagttatfff cttcagttat tcacaccttg atcaaacctg  300
aattataaac ttagcactta caaatatgaa aattcattca caaggaaaaa cagtatttcc  360
atttcaccaa taaaaatfff gaaagttaac agtctattct aggaaccaa gtttagctga  420
aaacttcang gatgaagatc atctgttgta gcagcattca aatatataaa cnggtaaaaa  480
taagacttaa aactggtggc tacagggtca tgggttngga ttaattcatc cattgatfff  540
agtccaaact tgaataccct tttntttata acan                                574
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<210> 8052

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8052

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cgtttatgcc aacaacttta ttgagcacca attagggcaa gggactacca ccttcacagt   60
tctcttgggc ttattaacgt cgtggccac tcatttatff cacaatgag gaaaccgagg  120
accctgctgg gagagtttgg ggcccaacca gggctccac tgagtctggg gcaccctcag  180
ctcctgcacc acaaagcttc ggttgacttg tttcaatgta aagaacgtta cttaaacagg  240
tctgagtgtc aggcaaactc acaagaccta gctcaaagtt tgagcacatt ggtatgaaaa  300
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aaagaaaaaa ggagaatcag caccttgtga tatttaagca ggggcatttg gcattagcca 360
 accaagccca gaaagtcggc aaaattctta gcctgaggca tccccagaac acctgagact 420
 agctcctgca gctgagggtt aaactcgtgc acctgcactt gcaccacatc ctgtctgact 480
 cttgctgaca gcccgtctct gggttgngaa ncttctggca agggttgggg ggacttcaga 540
 acagaccagc cnggatccca ggnkanaagg g 571

<210> 8053

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8053

gagacggagt cctgctttgt caccagggt ggagtgcaat ggtgcagtct caactcactg 60
 cagcctccac ctcccagggt caagctattc tctgcctca gcctcccaag tagctgggac 120
 tacaggcaca cgccaccacg cctggctact ttttgtatct ttagtagaga cggggtttca 180
 ccatgttggc caggctggtc tcaaacttct gacctcagg gatccacctg ccttggcctc 240
 ccaatgtgct gggattacag gcgtgagcca ccacaccgg ttgaatcttt caagaggcag 300
 gttaacaatc acatttttaa aagggaaccg aaaggaaaac tgaaagacct aagtcaaaca 360
 agccctgata ctgtccattg gaaccggagc gggacacagc acgagggaaa tgcagaaaga 420
 gtaccgatga gtgtgcacac tggagaatcc tttctcttca atccactgng caagtaagta 480
 tacttgata aatatnenta gacctgcaa antnaatct ctgnaaatan acatagc 537

<210> 8054

<211> 573

<212> DNA

<213> Homo sapiens

<400> 8054

catgtcatca tgaatttatt ttcaggcaat atgataatct attaacactc agcatactct 60

gaacttacag aataagtacc acgccatact tcctcattaa tgactatcat ttacatgag 120
 cttcttccac aatcacaatg agagaacaga ttgctacatg ttgctggta aatgcattca 180
 gtaaggcact caaatcctag acacgaacta accacagaac gctcttcctt gctttaataa 240
 attgaaacat gatctcattt ccttcatttt caatactttt tatagaaaga cacgcttgtc 300
 ttgaacttgt ctaaacaatag gtttatataa actaatccat tatcattata gttataatca 360
 aggaaatgat ttcacattga cggtttttta ggtagggata agcgaaagca ctgcagcagt 420
 ttctgagga atgtcttctc tnggttccc catacttagt acaatgcctg gaatgtanca 480
 gggactaaat tcngtggaca aatgggcaaa cttttaattc cagggatctg gtcaaattgg 540
 cttgactggg anaacatttn tcaagaaaa agn 573

<210> 8055

<211> 567

<212> DNA

<213> Homo sapiens

<400> 8055

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 agatttaaag tttcctcttc gtctctggtg gggcaagccc aactgtttcc tttcttcaaa 180
 ggaagggccca gctcgatact gtttcagggc cttcttgctt gtgttggtga gttcttcac 240
 aaatacagat ttcttcccct gcttttgctt cttggcagga cctctcactg gctcctcttc 300
 gggcattgct cgggcccgtt tggctctgct attcctcttc gctagccgtt cagcaaacat 360
 ctgcgccttg aggatttcaa actgagacct ttctctgct gtcactctcc cttttttttt 420
 ggcatccttc ataaacttct tccttttctt ctttctctt aaggccaaag tcaaattcct 480
 gcaaancctt ggcaaatttc tcctcttcc tctctctttt ggncctggaac cagttctttt 540
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<210> 8056

<211> 557

<212> DNA

<213> Homo sapiens

<400> 8056

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gagtcagggt cttgctttgc tgcccatgct gaagtgcagt ggcgtgatca cagctcactg   60
cagcctcgaa ctctaggct caagcaatcc tcctgcttca gtctcccaag tagctgggac  120
tacaggcatg agccaccacc atgcctggcc cctaatttca gtattgctgt gtctcaagga  180
tagggaggtc tgagcagaag gagagagata gggaggcagc tggtcagtgc agtggtcaga  240
acacataaaa catttatcga ctgagtttgc tgtcttatat aggggtgggt catggtgccc  300
ccaagcaat tatgacagta atatcaaaga tcaactaatca cagatcacta taactgattt  360
aataacggaa acattccaag aattacaaa atgtgagaga gacatgaagt gagcacatac  420
tgtagaaag atgggtgctga cagacttgct ccatgcaggg ctgcacaaac ctgactttgt  480
aagaaacata tgatacctgn gaagtgccat aagggatccc ctgaaaacag tgggcctgtc  540
atgactattn cncctn                                     557

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<210> 8057

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8057

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acttagtatt agcatttggt gaaaaataa atggccaaag ngctttaatt ttcatttaga   60
atgaaataat ctggcttacc ttgactaat taaagaaaat atagggtaat acaattgttc  120
aaaatctaac acaaatagga gcgtttacta tttttgtctg cttaagatt ttaacttgat  180
cgaaaatacc aacatcccca aacaaaattt actgacctga catcagctta ctatagactg  240
aatacacttt caacatcagt ccttagctac ctcaaataat gacncaaagt cttagtttct  300
tttgcataag gatcaagatc aagctatfff taaaacaatt taaatggtct caaaacattc  360
tccaacttaa gtgcaaattt gagtcacata atatttccaa agagtagaac tgnntttaga  420
ttatctttgg attctaataa ccattttgnc catttttaaa taaattacca aaaataccag  480

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tcagggtttt tttcttcaaa tttntctaagg ccttggtatg gcaccccatn tntcntnaca 540
gggcagcttg naacn 555

<210> 8058

<211> 575

<212> DNA

<213> Homo sapiens

<400> 8058

caaagcttaa attttatttc aaaatggcat attttgggtc aaagtatgaa aaaacaaggg 60
catagttatg tttttgttaa agtgaaaaaa attaggtaaa gtttatgtaa gtagactgat 120
gacttttgaa aatatatcat taagcatgta ctttaagtgc aaaaacctca agtcaaactct 180
tacaatgtat ttcaaaagca aagctaaaat tcattcactg nggttaaact gcatttcata 240
aaatatctgt tgaaataaac ctcatataaa cataattata cagatatattt aattgtatat 300
atatcaggta cacggaataa aagtcctact ctctagaaca tgagaagtca ataaatagaa 360
aagatataca aagtggaaatg aacatagaaa tgactaagca tgtgatcttc acattcatac 420
agtttttcaa ctaatctttt acaattaaaa aggtcattta tttgaaactg tanangttga 480
tatatgccat attagtttgg aaccttccaa acaacttttag tgggggtaat tatgtgtgga 540
gaagaaaact gggtatgnaa ctatcatggt tcaag 575

<210> 8059

<211> 550

<212> DNA

<213> Homo sapiens

<400> 8059

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cctggccctt cagtcttttc atgctccata actttcacia gatgctgtac acctgctaca 180

gacattggtc tctaaggagt tattctctag tgaatctctt tctcccactc aactccatgt 240
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 tcagctcact gcaagctccg ccttccaggt tcatgccatt ctctgcctc agcctccgag 420
 tagctgggac tacaggcgct cgcacacgcc cagctaattt ttggattttt agnggaaatg 480
 ggggttcacc gggtagccnn gatggncctg atctctgact cgganccgcc gctgggctcc 540
 aaaggctggn 550

<210> 8060

<211> 559

<212> DNA

<213> Homo sapiens

<400> 8060

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 tgatgagaaa acataaaata ttttcatttg gtcctgtcac ctaacagaac taccataaat 180
 atgagattat agtaattact aaagctgggt aaaggcacat gacaacataa ttcctttata 240
 ctcatccagt ctttttatac aaggaactgc tatcccttaa atggaagagt gaactacttg 300
 tttaaaatat taacagtgca ctatgtacct acaatgaaac cactttctcc aaagactcaa 360
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 atgcatatgc aagtgaaata taatttattc tgggttcaac aacaggtata caaaggcaca 480
 atttttcccc aggaaccnt cactttataa gtgcaaaaaca ccctgnagct tttctggtan 540
 ggcttgctg cttttanctn 559

<210> 8061

<211> 559

<212> DNA

<213> Homo sapiens

<400> 8061

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tcaataacca	gtttacacta	gtaatcaaaa	cacaagcctc	tttattcaca	ttgttttaaaa	120
atccaattat	tttcacacat	tcccacagta	actcgagtct	ctagacagtg	ggaaatttgc	180
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gaaactggca	tgccccagg	cagcangcat	gttgggttgg	ggtgttccan	gtagactgan	480
agttgtgatc	aataaaggct	gctgaacatn	tcgaggacan	ggggaagcnt	tgggcatant	540
caagtttctt	tgnaaggc					559

<210> 8062

<211> 590

<212> DNA

<213> Homo sapiens

<400> 8062

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acaaaagagt	gcaggctgct	ccccttaaag	gaatggacaa	gtaatataca	ctacaaaaca	120
atgtttaaga	tcatgtataa	atgttactct	gaatctcatt	tgttgtcatc	aattttcttta	180
gtatctcagt	gctttgggga	atattcttaa	caaaccctt	caagcttctg	gtagaaagta	240
taggcttaaa	agcttccact	gtgattaggt	ctaatttcat	cacatcagta	taacacaagt	300
acagaattgc	cgggattttc	catacttgac	agtagcttag	aactgctgca	ggaaggctcg	360
gtactatatt	cggttgttct	agcaatggac	aacacgccga	gtctttgaaa	ttctgtgttt	420
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taacatgtcg	acatgtgaga	ataggatatc	gcatggtctt	tcttgggcaa	aancccaaaa	540
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<210> 8063

<211> 520

<212> DNA

<213> Homo sapiens

<400> 8063

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aatacaaaca acttggggaa ggtagataag tgcaatggga gggaggattg aattgaatag   60
taaaacgtaa gcgtatgtga tttcttactt tggaagagag gccctttgtt ataataaaaa  120
aaaaatcgag aaagagaaaa caaataaaaa caacaacaat aaaccaaact cctacttcca  180
atgttctcta gactgttcaa aatgcctttc cctcggtttc catcagtacc tgggagggaa  240
gaatgggcgt tttggtgcaa agaacggagg gcccctagca aaaggtggcc tgggtctctt  300
taaactgtga aatgggtctc tgctgagaaa aggttcctta ggccgaaagt ctggccgggg  360
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ggccactgct gctgggtctg cctcccccaa ctntccttc atggggtggg cccaagtgtt  480
ccanaaaatg gganggtang gtgaagctnt tntngtacac                          520

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<210> 8064

<211> 600

<212> DNA

<213> Homo sapiens

<400> 8064

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gaagtaaaca aaatataaaa ctttattggt ttggagtgtg cagtagcagg tgttcctggg   60
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cctgcccctg ccaggagatt ggcatccatc tctgcagtgt gaaggtcggg gcggcgctga  180
gagcacaccc acggggaatg gtgctcagtc tagagaaagg cccagggtct gctgctggcc  240
ctgccacgtc gcttcccttt cccgggcctc agtcccggga acaatgggca cctggactga  300
acaatgggca cccggagctt ctttcaggct tgtcaggata tgtgcaaag cccacagggc  360

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gggcagctgg gaggccctcc gtgagagccc ttagatgatg ttggctgagg ccaggcgagg 420
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 tcaagaacaa gctggggccaa cacagcgaaa gcctgtcttc tactaaaaat ncaaattaac 540
 tgggcattgg tggcgcacac ctttagtccc aagnaactng ggaagcttaa ggcaggaaaa 600

<210> 8065

<211> 594

<212> DNA

<213> Homo sapiens

<400> 8065

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 atccatagtg cagcaagcaa gcagggtggca tatcaataag tgatacatat tactgagtcc 180
 acgaaatact tgagaatatatt ctccagctct cacctggagt tctgggacag aaagcacaga 240
 ttcttcagaa gctgatgaca ttctatcttc ctcatcttgg gtgaggatcat caaagtcctc 300
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 cacttcagga tccattgagg acaaagcatt ctttgatgat cctttgttca catctgtccc 480
 tgangttcct tcatcanggg gctctttgag aagatgaaag gggtttaagt tggctgactc 540
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<210> 8066

<211> 602

<212> DNA

<213> Homo sapiens

<400> 8066

aaattttaaa aggattttgt tatttgctat acaaataac atttcaactt ttacaacatt 60

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atactgaaga	tgaccagagg	ctcagggtgt	aaggatgcat	tttccatggt	ttccaacagc	240
acacaaactc	cttacaaaaa	acaagcttat	ctagatgggc	ccacgagctg	gtcatcttca	300
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tcttctgnga	caganccttc	tnttncgggc	atacatttgc	tctgacaccg	tggaancttc	540
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<210> 8067

<211> 606

<212> DNA

<213> Homo sapiens

<400> 8067

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aacatacttt	tcaatatgat	acaaagcatg	catctcaaag	tcattacttt	aaaagagagc	180
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tctgtggcat	gatcagccca	agatggatgc	attgagtctt	catagactca	ttcgacaaaa	300
acacccagaa	agaaaggctt	ttgctaagaa	cacttcaaaa	ggtttagaac	attgcaatgt	360
aacttgcacc	ctggcagcac	ctgtcaccag	actgtcagtg	caaaactgaa	agaaaaacat	420
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accagaattc	tagatgaaga	aggacatga	atangcttng	cccaatttcg	gtgacacttg	540
acacagtnaa	agatccaaat	tttcaagttg	gaagggggta	nanaaggggg	ccntcaaggg	600
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<210> 8068

<211> 595

<212> DNA

<213> Homo sapiens

<400> 8068

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cctgattgtg atacaacaga aagtacagaa cagtaaactg ctttttaaat actggaattt  180
tatggagaat acattcacat aaagaaagga ggtgaatttt gttttggaac agggttaaga  240
caatggagac attaatacat agagtgtctt gttgtattta ctgccacata cttgagggga  300
aattctcaaa atcaaggata tgaacacctg ctgctgcctg tatgccacct agtgtgcgaa  360
acgaccgagc taccagttct agaacttatg agaactactc taaagagtgt ggccatctat  420
cagcacgagg taaaccactt agacctcagc acttcagggg tggcccgcta gagaaaagan  480
gcctgaaaag cttcagacaa ttccgtcaag ccaaggtata atgccaaact tgccttntga  540
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<210> 8069

<211> 587

<212> DNA

<213> Homo sapiens

<400> 8069

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actggccttg gtaaaggaaa tgacacacat tcccccaatt tggaagcaat ctttaattagc  180
cagggagtga tttttttcct tcagcaacgt agtccccaaa gtacagacag cttctctctt  240
ccttataggc cgagtcgtag gagtagcaag cttctaaatt ttggctgtgc ctctgagctt  300
ttggcctaag tcccaccagc cccgaagttt ccatgacaac aaaacaagga tcaacgtgcc  360
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tctgacactc ccttcagccc caaattgttc tcttactccc attttcttcc tacctcccaa 420
 gtatcactgg gatacaagca gaacagggct ggggtgctga actcaccctt ggggaggact 480
 cattatagca tcttgccttt ctccattatc ggncaactgg ctaaggccca attaataaca 540
 gctgnttggc ttcctggaac cgctggccnt ttggacatgg tagcctt 587

<210> 8070

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8070

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 tatcagtcac atatatactg gcacttagtc tggtagatgc aaatttcaag gcaatttcctc 180
 tccatctgag aacgaggaat tgtgtcattt taaggccaaa ttgcagtcca attgccacaa 240
 gtgcaaaacc accccacata accacctatt tgtaatcatg gaatgatagc ctcaaccaac 300
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 taaaaattgc aaaagatgat aaacatctat tattttgtaa aagttacaag ctcccatgcc 420
 aggtgtcagc cctgtagtgg ttctccagcc tagctgccat aagaagcatn accaggacac 480
 caggatgatt caaccggaag atttcaaan gncctcangn gattccaaag gcaaccccgt 540
 gnt 587

<210> 8071

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8071

ataaagaaaa agaagtttaa tggactcaca gtttcacacg gctagagaga cctcacaatc 60

atggcagaag gtgaaggagg agcaaacaca tgtcttacgt ggtggcgggc aagagagagc 120
 ccgtgcaggg aaactgccct ttataaaacc ataagatctc atgagattta ttcactatca 180
 tgagaacagc atgggaaaat cccacccccca tgattcagtt acctcccccc gggtcacctcc 240
 cacatgtggg gatcatggga gctgcaattc aagatgagat ttggtgggga cacagccaaa 300
 ccatatcatt ttgccccctgg tccctcccaa atctcatgtc ctcacatttc aaaaccaatc 360
 atgcctcccc aacagtcctcc caaagtctta tttcagcatt aactcaaaag tccacagtcc 420
 aaagtttcat ctgagacaag caagtctctt ctgnttatga gcctgtaaaa taaaaagcag 480
 ttagttattt cctaggtcca tggaggccca gggatttggg naaaaacgcc cgttgcaatg 540
 ggaaaaattg gccaaaccgg gtcncggncc t 571

<210> 8072

<211> 563

<212> DNA

<213> Homo sapiens

<400> 8072

aaaaaaaaatc attttaattt ttgatacata ttaaaacatc ttagtcagtt cctcctgaca 60
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 tacttaaaat ttaataaata gcaaatcaca cacagataca tttttcataa tcattaaact 180
 actaaaacag acagttaaag aataaataaa ccgcaactga cagtaaaaaa aaatatgttg 240
 ggttttgcaa ttcacactac ttaaaaaggg gggatgatct gaatgatttc ttaattttct 300
 tttgagagtg tagcatgata cccccagga ataaaatata ttgaaaaaat cactcttaca 360
 acaatgtatt ttttaataac aacaaataaa tatgaaacca gcaaagcaat ttcaagttgt 420
 aataaaaatg tccccgccc ccagccaaa gctatggaaa tatatagttg ctggggtagc 480
 aaataatagt atttaaagng atantgcttg ggccctaagc ttatttgaga acctgngatn 540
 aatttagggg caantcctnn ggg 563

<210> 8073

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8073

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agtcagcatg acctctatTTt tattgattga ttgatggatt gattgagaca gagtttcact 60
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aggttcaagc gattctcctg cctcacactc ccaagcagct gggattacag gtacccgccca 180
ccatgccaaG ctaatttttg tatttttagt agagacgggg tttcaccatg ttggtcaggc 240
tggtctcaaa ctctgacct caggtgactg cccaccttgg cctcccaaag tgctgggatt 300
ataggtgtga gccaccacac ccgaccagca tgacctttaa acacaattgg acttaagaca 360
aatttagtaa atgcagattt ctggggggga aggggggaat cttcttttaa aatgcccata 420
tttagttag gtgaaatata ctgcttataa actattgata ttanccttga anaaccntta 480
ttgggtctta nntgaataat taaagcttta aaaaggctta taaaaatgca gganc tantt 540
ggg 543

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<210> 8074

<211> 564

<212> DNA

<213> Homo sapiens

<400> 8074

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catattggga gatttttatt aacttaaatt gacattctta attttgtctg taagtccttg 60
gtatatatgc ctttatttga agcaaaccta caggtgtttc ttaatatgac agaatcatga 120
agacttgcag ttaatcagtg tttcctaatt attaaaacaa tgttcaaata attacaaagt 180
tacttcatca aaatacttag aagaatattc tgaggagtgt ttgaaagctc tgtttataaa 240
tagtgattga tacatttata atgtatttgg tgctgaagat aaacactttt tacataaaac 300
attgttttaa tatactgctc tactaatgag gctagttatt agatatactg tattttaaca 360
ctaaagaata aagctttatc ttcgtattta tcttatttat aggactctta tcaatgaaga 420
actttgtatc caacaataat aaactggcaa attgcaagtt acgttttgta ggagaagcaa 480

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aaaagactgg ctgcgaccaa agaaagaaga aaactgggtt atcatgcttt gnaccaacag 540
gncctntn gn angggccatt aang 564

<210> 8075

<211> 587

<212> DNA

<213> Homo sapiens

<400> 8075

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ctttgtatag aatatacaga cacagcatca caccacaggg cccacgggag ggtcggggag 120
acgacacttt ttccttggga aaggcagctc taatcccagg aatggttctc agcagaggct 180
gggtggccag gagcactgtc ctctagcccc ctaactcagc ctctgcttca gctcgggtcc 240
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aggatcatgt cccttggggc gtgtgcccc tgtctgggag aagaaatata caccactgaa 360
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aggtggatgg gccgaactcc cagccaaccc tgaaggaagc gctgctttca agggttctta 480
aaaagaagaa aatcttcaac caaaggggaa gggacnagg nnaaggccaa gaattgnccc 540
atttttccca cattggaaca tncncggcta tttnaatggg ctttagg 587

<210> 8076

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8076

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atttggcatt ttaaaattct gaaactctga ataggcactt acatgaagga aaacattacc 180

attcatagat atccacatgt agaacagatg ctccagcaca tggtaggtaca tggacccttt 240
 tgccagtaaa gttggttcct gaccatttta tcaaagtgcc atagtagtaa aacaggttta 300
 aagaaatgta atttgggtta tttagcttac tcataaagta aggttaactg acaagacttg 360
 cactgaagtg cataaaaaat attggtacaa aaaccaatga accataagtg aaagtagttt 420
 ccatacagca ggtttcattt tggttcctac actccacatt tagtgtattt gcgatcagac 480
 cccatgcata tgaatggatg actgcaatct tcttttttag aaacttaaaa ccaatgactt 540
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<210> 8077

<211> 538

<212> DNA

<213> Homo sapiens

<400> 8077

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 aatgcagggc atcatatggc aagggggctg aggatgctag ctgaggtctc tcttctcttt 180
 cttatgaagc caacagtctc aattccagca taagccatta atccattcac agcaagaccc 240
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 acctctcaat actgtcattt tgggaattaa ttttcaacat gagttttgaa ggggacaaat 360
 attcaaacca tcttaacaat actaaatctc ccagcccat aacatgaaat atgtattagt 420
 atattttcat gctgctgata aagacatacc tgagactgga gaagaaaaaa anggttaatt 480
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<210> 8078

<211> 576

<212> DNA

<213> Homo sapiens

<400> 8078

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atgcctttca ttgtttcctt attttccta tcaatagttt tcaacatttt cctttctgcc 180
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ttaacttttg tcanaagtgc ttatgttttc gagaaaatga ccacatttgg ggcangcctc 480
ttttacctca agtccccact tctggtcctt ccaggaaagg gcaaactgca aaggaggttg 540
aaaataggat ccttggtatc ccttttccca aaangg 576

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<210> 8079

<211> 530

<212> DNA

<213> Homo sapiens

<400> 8079

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ggagggaacc ggggatgggg atgataaata ggtacaaaaa aatagttaaa tgaatgaata 180
agacctataa tttgatagca caacagggtg actatagcca ataataattt aattgtacat 240
ttttaaataa caaaaagagt gtaactggat tgtttgtaac acaaaggata aatgcttgag 300
gggatggata cgccatcttc catgatgttg ttattacacg tcatgcctgt atcaaaacat 360
ctcatgtacc acataaatat atacacctac tacaaccac attttttttt taattttatg 420
aaaaagaaat acattatcan gggacnaagt gttattttaa aaaaaaaaag ctgcattcnc 480
aaaaacggtc tttaaatcna aatangnt aaacccttn gagggacttt 530

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<210> 8080

<211> 559

<212> DNA

<213> Homo sapiens

<400> 8080

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gaacaagtaa aaaagggctg gtgtaggtac caaagccaaa aggggcaa at ctgtcctcaag 180
tttatccact ctggaaatgg agattattcc ataggcatga agtaaccagt ggctgaagag 240
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catgtacaca gccagagtaa ccaaagataa cactaatata atgtatggga aggcgtaata 360
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ataaatactt ttaaactgat cagatttccc taaccacat gcaatcttct tnaccagaag 480
aagtccgagc agcatcttaa ttcccagcng aatgcgtaat agattaatcc catgggatat 540
antggggaaa ccgnttctt 559

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<210> 8081

<211> 565

<212> DNA

<213> Homo sapiens

<400> 8081

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cagtttctgc attagcacta gtttcccaa gagtcttctc atgtaaatta cttcctttct 60
caattaaatt ctctgtaga gtttggtcag caatcagttt ttgtttaggt aacacatcat 120
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ttaccatttg atctgctgat attactactg ggggtgtatt ctctttggat tccaaattaa 360
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ctgctttaag ctttgnattg gcatgctcca ttggtagatt cagaaaggat gaacctggat 480
 taatctggac cacaattctg ggttggatta aagccaaccn agnggggta atttttctta 540
 agactaccaa tngcctttaa canng 565

<210> 8082

<211> 547

<212> DNA

<213> Homo sapiens

<400> 8082

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 aacttctgcc acacgtacta atgattagac tcacggacat gatgaaggta ataagctgta 180
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 tatgtatgga aatggaaaat gtgattttta atgtttataa caccttgaca gaagaagttt 480
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 ggcctaa 547

<210> 8083

<211> 539

<212> DNA

<213> Homo sapiens

<400> 8083

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ttaactatca naactaaaaa tgagaaaatc caaatagttc tatagtanca ataaattatg 180
aacaagtttc cgtcacaaa tatcactctg accaaaaatg actgtctttt gtcataaaaag 240
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caaaatactc attatgccac caggttcaat gtaagtattt tgtatataac aaagtagcag 360
tcaggatatt tgttgatgga tggctactcc ccaagaaatg acacattctt acgaacttta 420
aaaaaatagc aaagttgggtt acaaaattct atttggggag cngggaaaaa acttgncca 480
tggttaattag aatatcaaag cntttcaaaa tcaactgggtt ccaaggccat nnttaccca 539

<210> 8084

<211> 556

<212> DNA

<213> Homo sapiens

<400> 8084

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acaggcgccc accaccacag cgggctaatt tttgtatac ttagtagaga cagggtttca 180
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taattgctat atttttgntt tgagtattta taactcaatg tagttagtaa tcaaaatcat 480
gctaaaatgg tttaatggtt ttagaatggc ctaaaaaggg catttcanga atatcatttt 540
aatccctgaa attttt 556

<210> 8085

<211> 540

<212> DNA

<213> Homo sapiens

<400> 8085

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atacccaaat catttctatt tggttttagg aaaaaaacia gatttccttt tcagcatttg 60
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tcaggtaaca aaagccagtc tgcccagcct tccatcttta cctttggaaa tcgagacctg 180
aatgggtccc attctttttc tgtaatccaa cagaaaatga aaaaaaacia aaaaccacca 240
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agttctccct cgtcacatac tatccctcat ggttgcatga ggctgcctgc tgatgagatt 420
caagccaact taaatgaagg gcttcaccac atgagaacct tcaatagcaa cgtttacatc 480
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<210> 8086

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8086

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gcaaattggtg agaaaatgat actattgtcc aatcctttcc cgtaaagtga aaatatacctt 180
agttcatctc caaactgtgt atttattata agcccttaca tcagggattt tgtttctttc 240
agtttttgta gcaccaaata gacacagcgg ctaacaagaa ataaatctga aaagtcactg 300
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ctgatgtgat ttgtttacca tgaataatac ttggttaata tcttttgat attactttac 480
aatttccaag tattttatgt acagtgactc acttagtgac tcattcattt taatggaatg 540
gggncccca aaccn 555

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<210> 8087

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8087

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catggtcagc cagtctctag taagtctcta gggacatgac cagaccagaa gcccctgttc   60
tacatgaaga caaacagggtg gccatacttg ggtggaggga taccgctgct attcccagat  120
caagatttgg tggaaggaga ccatgacaga tgacaaacgg aacagtttct caaaaacaga  180
ggtatgaagt aattacacag gaaagaaaac aatttccaaa ggagtgagac aagtcgtgat  240
tcttcattgg tacctgacct ctatacccaa acagccttga accagccctt ccagagactg  300
cccctagtgg cccactgggc agtgcaggct gtgaagaaga cctgaaggca gatgggggtg  360
gggtgcttat tttgctacag tggagaaggg gcttgaatgg ggagggcaga cctggctaac  420
atctgccgcc atcccccaac tccccccag acttctatca catttacaaa tacatacata  480
aatccttaca tacagtancc agtctgggag gcaaaattcc cacanaagca ttgnttgaca  540
catgttgga attnt                                     555

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<210> 8088

<211> 558

<212> DNA

<213> Homo sapiens

<400> 8088

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acattcttat aagtggttta ttgagagctg atttgtcaat caaagaacac accataatga   60
tggaatatt gatgatttca acataaaaaa atttaaataa ggncaatctt tacatagtaa  120
ttaggagcca cttacaagat gtatcaagca aacagagcaa gatacagaac agtgtgtggt  180
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tatatgctat gtgtactcct ctgtacatgt gcttatacca catgtatgtg catatctaac  300
tctgcacaac cccgggaaag gcaagtcgac gctgatgtca ttgctggctg aggagagagg  360

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tggtggctgt gggacagaat gggaaggac cgtatcccta cataatactt catacctttt 420
 agctttgaac catgtgccat tattacctat tggaataata agntaaaaac taaaaatcaa 480
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 agtntactgg gactggcc 558

<210> 8089

<211> 559

<212> DNA

<213> Homo sapiens

<400> 8089

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 caccagcact ccacctgag agtgagccac tcggtagatg gcaggggaca aggaaaccag 180
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 tgggggtctt tccagcaaata aagactcttt tctgctgggt tcatgtgtgt ggccttgctg 420
 gaagacaagg gtngggaatt ccttcctttg aaccctttt ccaaagaaac ccatggactt 480
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<210> 8090

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8090

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aatgtagact ttcctttaac agaaaatgtt aaatctgtaa tagcagcata atttatatat 180
agaaaaaagc tggttttgaa aaccagatt tatacccaaa acattttttt tctgtacaac 240
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tggncatatt tcagctttgc tctgagtcn ggnagatctt tagaaaggct ttccttaact 480
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gcttggaac antggggaaa tnggcttttt aaggact 577

<210> 8091

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8091

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tgtgatgttt tgatacatgt atacattgcg taataaccga accagggtaa ttagcatatc 180
catcacctca aatatgtgtc gtttctttgt gttgagaact ttcaaaatcc tctcttctag 240
ctatttcaaa atatatgcaa taggttattg ttaactctag tcaccctact atgcaataaa 300
acattagcac ttatttaatg tgaagttttt aatacaaaaa ttattttaag aaaataagca 360
caggctgggc gccgtggctc acgcctgtaa tcccagcact ttgggaaggc naggcgggtg 420
gatcacctga gggcaaaaagg tctagacnac ctaaccacc attggggaaa ccccgncnt 480
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<210> 8092

<211> 569

<212> DNA

<213> Homo sapiens

<400> 8092

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gcagcacaga tggactgctc cttttcaaat acttcagcca ttgtttgcct tgtcaactta  180
accaacactg taactaagga tcctactgtg atgttggtgc tatcttcac atctaacc  240
tgtgatttta tatccatggt cacatatgga aaactcccaa ggacagccat aacctcttca  300
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<210> 8093

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8093

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tgttcaacat ggatcacgag tgcacagaga gagagatcag ctgcatttag tgaaacgcca  180
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gactgtcacg tggactctac acaccgagaa ctgcttcaag gtcgcctgtg tctgagtgcg  300
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atccacttta caaaggggtg ggaggcacca tggagaaact gaccagaaat gctctgccct  420
gtcacagaag gagacaganc cnaggcagac acgngtgacc tctgggangc caagacactg  480

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gcagtgatng gtccattgg gatgcctggn acttccaaca canaacaggt tccccaagc 540
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<210> 8094

<211> 572

<212> DNA

<213> Homo sapiens

<400> 8094

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aggggaggca gggcagtttc acattttttg aaaggtgggtg gacgacaact acacttgtcc 180
ttaaagtaaa ataaaagcag gagagacca gcagagacca acctgatttg cagtttagcat 240
cagaatctaa atctagtatc acaactttta gaaactaaaa gaaaactatt agaaaaatag 300
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aatggctcca tgttcagtag aagaaaatat ttactggaga aaccacagct attcaggttt 420
gataataaac ccaaccctta ttggnatcat tacccttaag tgctccttaa ctcatggaac 480
tgaangnca acttaagcng gaacttatca tcttaataata tatatacttc tcaaattggga 540
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<210> 8095

<211> 551

<212> DNA

<213> Homo sapiens

<400> 8095

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gtgtcctcac atggtggaga gagagatcat ctctctgggtg tctctcctta taaagcacta 180

atcccattca tcagggtccc accctcataa cctaatacacc tctccaagac cccacccccca 240
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 acacgttttt agcacactgc tgatgtccga caggcctggg tctgggacca gtgtgtacca 420
 acaagcatgg tctgtgggggt caactgtcac gctcctgagg aagacaatgg gccctgcttc 480
 tnttccance tgtcngngct ntactgagtt taatttccca tcaatactgg agngngncc 540
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<210> 8096

<211> 554

<212> DNA

<213> Homo sapiens

<400> 8096

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 gggacagttt tcagggtccc agttgcttcc ctggcttgaa atcaccttgg tcctagcaga 180
 ggacaggtta aggctgccag aggcagaggg tccctgaccc tggcccggag acagactgcc 240
 caggcaggcc ctctgatacc atcttccaac catggcagcc tccaggaaaa gccagatcca 300
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 tcctgtctgat cacacctctg ggaggggctt gctggattga aagaggacct aagaatcttn 420
 ctgggacnag gacagaaatg ggatctaagt ctacttctna ctinacattcc cgcttgtgac 480
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 ancctttggc ttna 554

<210> 8097

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8097

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cctgaggcca gagtgtgcct ggggatatgg gggacgtgga gggcacccat gtccagccca 180
cctcagtgtt tctgcctcag tgagaagggg agggagtgtg ccacaagggg gcctgggtgc 240
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agccaggggc tatgtgtgga cttagggttt ggaaccatta aagggtctctg cnacgggaag 360
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cacagaacct gctcgggcgc ttcaatactt gaanccccct agttgaaaaa tatctttctt 480
ccanttttac cangcccttt ncttttcaaa tgctacagna cacccaaaca gtaggtctct 540
tgttgcccn aaccacagct tcacttatgg gttt 574
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<210> 8098

<211> 572

<212> DNA

<213> Homo sapiens

<400> 8098

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gtgacatcca ttacctcact agtccaactt ctccagacta acgcagactt ttctcttccc 120
ttggcctttc ctctcctcgc cattgggcca attccttcga tttctcattt cccttgaagt 180
tagggccatt cacagtttca tggtaaagc cagttccagg ttcaatagtc tgtgatttat 240
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agaaagggga tgctttatac catagaacac atccaccttc tagaacctgc tctagaaggc 360
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cggctctcaa actctgggtt caaaaaaac tgagcatggt gagagaagac agtgtcaaac 480
cgaggccctt ggaggacctt tggaaccctg atagtctgnc atacngaac ntggatttct 540
ctaaaggtca aactggnntt actngnga aa 572
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<210> 8099

<211> 518

<212> DNA

<213> Homo sapiens

<400> 8099

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gaaacaaggt gtctggacgg accacaccca taagcggctc tccgcaaacc caggcagacg  180
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cacagagcag cagcacgggc aggggtggagc gggagcagcg tgtgggggcc cccgccaccc  300
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acctgtaact cccgggatcc gtaattgggc cccgcttccc ccancctcgc ccccggccca  420
ctgtgcgttc ggcagctcag gttaaaactg angggaaggg atacattana ccgcagcccc  480
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<210> 8100

<211> 595

<212> DNA

<213> Homo sapiens

<400> 8100

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actgcttagt gacactttat tcaaattaca acccatagtt tttgctcaa aaaatgcaac   60
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ttaagggtgt tcttaggtat ttcccaaage tctttgctct tttatactgc agcattttca  180
ggaggagtca ttagatactg tcaaggcca agaaataact aaaaacaaaa aataacctga  240
gactcttttc tgcaccgcca ccagctgccc agtacactag gtcacctttt acagcagtga  300
gcacagcaat ccatgccaca aaaatcctca caaaacaaga aggaaaggta caaaaagaat  360
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tatattaaaa tggtaacata cacttgtatg agggagggat atttaaaatt aaaatattat 420
 catcacaaga aacaccagat attccttgct ctgcccttgg gcaaccaaga aacttaaagc 480
 ctgnntttata tccananaa taaagagaga cctgatanaa gttacaatgc tcaaagcttt 540
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<210> 8101

<211> 581

<212> DNA

<213> Homo sapiens

<400> 8101

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 cgcaagtggg tggcacagtc ggctcttcag tggctccaaa gtgagcccct cacaacagga 180
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 ggtggggcca cggctgacct ggccccagag ctacaggaac aggcaggggc cagcttggtt 360
 tgcaacacca tgaacaagc ctgtggggcc cttagtgtct tctccgcag agcccaccag 420
 aaacacttct gtgagtaaca gaacctgga ggaaaagggg caagggtggg gccttggtgg 480
 caccgnaca gacgtgcccc aagcttcttt tcaatngact ggcaccttcn ggcaanaaaa 540
 acccnaanc cttggggctt aaggtttggc cttccaatt t 581

<210> 8102

<211> 569

<212> DNA

<213> Homo sapiens

<400> 8102

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tttaaaagtt gagaccctgc ttacaatat ttataattt taaaaaagg cgtttaaagg 120
 tgataggtga cttataaatt ttccactttc aaaatgggtt tctagacact gttgttcatg 180
 aaccaaaaac aaacaaacaa acaacaaca acaaaaccca aacactttgg caagcaaagt 240
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 gagtaaattg aaaccatgtg cttattaact cttctatata aaatattgaa cccccaagtc 480
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 tatatatattg ccatttttnaa aaanctcaa 569

<210> 8103

<211> 519

<212> DNA

<213> Homo sapiens

<400> 8103

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 ggcaactcctg ggttgaaaat gaaggcaatt atcacattac tgtcagtcct gactgagtca 180
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 gtgctttaa tcatctctna cccatgctaa gctgtgatcc cttaccaagn ctatgaaacc 480
 ttggaaaaan gagtgaaaaan tcccccgagg gngtgtgng 519

<210> 8104

<211> 585

<212> DNA

<213> Homo sapiens

<400> 8104

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aaaaaatact tcttgctttt atattacat cttcccccat taggcctacc tgcatactgn 180
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agacacggta gccgacatat gcaatcccag atctctggag gctgaagcan aaggatcctt 480
gagctcagga gtttganacc cgcttgggcc atattcaaga ccncngaaa aatgtaaacc 540
ccgggtgatg ggcacacctg gggttcaant cttggggagn ttagg 585

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<210> 8105

<211> 536

<212> DNA

<213> Homo sapiens

<400> 8105

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attttaaaat agctcaaaaac tatcttgcac ttttaatatit taaaataaaa tctataatat 180
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caagtcatac tggcnaggtga ggataaagct taatggaaca atcngggacc annaaaggct 480
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<210> 8106

<211> 536

<212> DNA

<213> Homo sapiens

<400> 8106

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gactttgact tttccaattt tttcaatgat aatctttttt cctgataata tgttcacaat   180
caagtaatac cagggactgc tgagaagtgg atgatgaagg gtgataagat atagactgtg   240
cccttctctt tgcagctcct gagaggggat gggaagggat tttgggaggg tgagaaacag   300
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ggaggactan ggggtgggaaa agtgaccttc tgcttgagga tccagtccac ccttnacca   480
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<210> 8107

<211> 516

<212> DNA

<213> Homo sapiens

<400> 8107

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tcagtcactg tagcctcact gtatgatcaa gggaggtggg gattatttag tcaaaaagga   180
agaaggtagg aagaacagga ggtggaaggc tggggaggtg gggacaaaca gaaagtaaaa   240
ggtcattgtt gcctgtttga atccagaaaa aaatgcctgg ccctatggag gggaaggaag   300
cccctcagag gggaggcagt gggctggagg gaggcagccc tgggatgacc ccatccccag   360

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caccacggga tctggcgggg gcagangang ggccgaggca agcgctgggtg gaagaaccgg 420
caggggcctt cgggaacctc tgggtcacac tggctactgn gtacttttgc cccctttgtg 480
ttnccegant aacttccna atcctaantt ccnaa 516

<210> 8108

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8108

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agccctgaaa tgcaacagcc tctgagtac ttgagccgca tgtgactggg gttctgttaa 180
aagggcaggc tcctccctcc tagccctgaa gcccaggaa cctgccttga aagacaagct 240
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gttttctct ctaagggcac ctgtctgaac ttggagctgt gttcactgg tgcctcatgg 480
ggcctggggc ctactnttca cctgaattca cacttttctc tataaggnat cangtggggg 540
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<210> 8109

<211> 581

<212> DNA

<213> Homo sapiens

<400> 8109

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atcaatcctg aaggatcatt tcaccaaata ggaatttgga gttgacagag ttttgttttg 180
 aggcagtctt gctctgttgc ccaggctgga gtgcagtggc aggatcttgg ctcactgcaa 240
 cctccacctc ccgggttcaa gtaattctcg tgcctcagcc tcccaagtag ctgagattac 300
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 tgttgccag gctgggtctca aactcctgac ttcaagtgat ctccccacct tgggtctcca 420
 aagtgtggg attacaggtg tgagccaccg tgcccagccc caagttgata gttcttctgg 480
 cactaaaaga cttgtctact tccttctggc tncatggttt ncagagagaa atccctgnca 540
 tctgagttac ttttcctct anttaagaat tcacttcttc n 581

<210> 8110

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8110

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 caaatctggc tcctggcagg cattcaaata attcttaa atgaagagatac aaaagcccac 180
 tgagtcattt atgcaaatca gatggagtgg cggctctctc cacaattccc aagtacagct 240
 tccacttttc cctcaacctc tcataaagtc acagagtaaa tagaaggtag gtttatttct 300
 ccagtcttga aattaacaat tttcaagaaa acaattatt agaataactg gtggagtcac 360
 agacatattt ctagctccat taggtcaaag gaaaggaaag aggacaaggg tagaaaggag 420
 acaagccctc taagaaactg tccattcagt ctgtctgcag tcaatatgaa gagatagcct 480
 ttggagctac agaaaatatt acattgaagt ggattatgct tgctggtaaa gaagctgggt 540
 ccaccgagca gcagcnngaa gacgaagact caaatgttnc ttagtagc 588

<210> 8111

<211> 581

<212> DNA

<213> Homo sapiens

<400> 8111

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gaaaaggaag gaaaatattt tattaaaagt tttttaagt ttatgaattg aagtctatga 60
aaacaaacta cttgatncaa aaacattcag atattagatg tcaaaataaa tcagcacatt 120
tgaaaatact ataaattata tttcaaaca atatatacnc attatgttaa ccttcaacag 180
gatccattat cactacttan aacactgata tgtttatctc ttaagtatgt aaaaattaca 240
tagctgttaa ctttgtatgg caattcacct ataacacatt taagaaagca ttacaaaatt 300
cattatatga taattctaca aaagttttct cacatttacc aaagcctact aaagtccana 360
gggcacaaat attggccaaa tagttctttt atcttagaca taaagatgtt tttgctgntt 420
tttagaacca ttaagatggc taagagaacc aactttacga gcttaactgg tctcangcat 480
ctgaatgggg gtgtggagaa gtctcaaggt tccaagaatc gcagntcctt ttttnggtga 540
aaaaataaaa ccttggattg gangcattcc cgccaaangn g 581

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<210> 8112

<211> 593

<212> DNA

<213> Homo sapiens

<400> 8112

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cctgctcatt taattatttt tatttacaca actttttcca tcatcatgat gcaaataaga 60
ttataaatac acaaacactg gagtacatgc aacacattcc acaaaggaac aaaaatgtac 120
agcactacag aatagagaac ccaaattttt atatacaaag tgctttaaaa aaaaagacct 180
tgtgacatat tcaaaccata tttatttgaa tactttccaa taattacat gggatacatc 240
atttataaat aatatttaat ctcccctatt ttttcaagcc agaatttgtg tttcaactaa 300
tcaagtgaac agccattcca ttatgtaata ttaaaggcaa gtcacatagc atcaaatga 360
aaccggtggg cttcttgctg ttttctcta tcatctgctt tcttttcctg ccaatgtaaa 420
atgccaatta ttgccaagat gaaaacacag acaccgatga gagctatagc agtaagcaga 480
acaatattac ttgngnaag atcagtttgg gccttcaact ttganggaca ttgtganggg 540

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atggaatgca attagctngg gaatttggaa ggattgcggc cactnttgnt ttg 593

<210> 8113

<211> 587

<212> DNA

<213> Homo sapiens

<400> 8113

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 aaaaatgtgg tgcctatgat ttaagtcctg atttgagcac atcttaattg gtgcactatt 120
 gcttttgata atccagatat aacaacaggc aagcagtaat aaatgaagag acttactatg 180
 tatcacacaa gcaaggtttc tgaattacaa ataacttcaa caatgacatc aaaacctatg 240
 aattaaatct taactcacgc ggttataaag ttaaattctc atgtgtctta gtgagaatgc 300
 tatcatcaaa tacattctaa attctttcat tttttagtgt acaaaggtta tgggagaaag 360
 gataaggatgc tttttaaata agctaccact gactcacaca catccataca cgcatcagtg 420
 caaactatga aaaacactaa ttttaaaatg aaataatgat tatctagact aaaaggagac 480
 tttggaatag aataattttc catgactaat ttggttacca atatngatac tcaatgnaca 540
 tattgtcacg aaatattcaa gaatacctt atcncctgggc nttaaaa 587

<210> 8114

<211> 566

<212> DNA

<213> Homo sapiens

<400> 8114

cctgttataa agngatttta ttaaatngat tnggacatnc tgtaggtcaa ataatatitt 60
 ctgaanataa caattatgga ctttaaagct cgacataaaa ttagtagctt caaaagggtt 120
 agtcatattc cccagcanca gcatgataaa ataattcaac tatgtanaaa tatanaactn 180
 taggactagc tggaaactcg gaaatcattt ancctaangt tctcattttg agagaaaact 240

anactcaaag attaagcgat ttgcccaagc tcacatacct aatagtaata aagctagaaa 300
 tcaaaccaat ttttcctaaa actaaaattc tatcaatgat atttcaactg gctatcaact 360
 aaaagtctag gcttttctct aatgctccac nctattgtga catgaaagag tgataagaca 420
 ctncagtaaa tcgacttgng gaattcaggc ctggaggggg ctttggaata taactaagcc 480
 cgccctnttt tgtaaaaagg nggaaaagtt ctgaagggtt tccaaagctt gttaccaaaa 540
 agtctggatt aaatcccaan ttgcca 566

<210> 8115

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8115

ctgttatctg caaataagca ctttattacc aaatagtcca gcatcagaac aagaattcta 60
 attccaaaag ggtttcttta cattacatga cattgtgaga tacacattag aagaatctga 120
 gactatgttc catttcagtt tctcttttgc aattaggtaa tttgttttga tctaaaaagt 180
 acaaatttat ctcattcttg ttaatgctgt ccatgaaatg taagtatcag ttccttctca 240
 gctagtgttt tatagttata ctggtgccag gttaagagac ctattttata gtgagtgaca 300
 tgaaagtcaa ctacaagaaa agcacattgt cattttcatt tacagaggca agtcctcttt 360
 aacacaaaga aaagcaaagg accttatgtg attatgtaag gcagatcagc ccaggaattt 420
 cattcaaaga taatacttca tactccataa tcccatgtga gaaattaatg aatgactcca 480
 agtaaaaaga aaattaaaat tagcccttgg gccttgacaa tttaattgcc agggcctttg 540
 ncaattctaa acaatggtct aaattancnc aattctcaga atgattacc 589

<210> 8116

<211> 546

<212> DNA

<213> Homo sapiens

<400> 8116

cattttaaca acatttatta caaatcacat tttataaaca ctagataaat tanntataaa	60
agctagacat aaatataaag aagcaaaaca aaaacagcag tactattaat gcaagagaaa	120
taagctaata taatatttaa acacatataa cttaataaaa ttaccaattt ttcattgtta	180
ataatttttc ataaattcaa aagctattca gaaatgaaat gtaatacatt ctgattacta	240
tcaaagggtta gaattataga aacaaccata gcactactta ttttttaaaa tcgtttcaaa	300
cattcagaag ccaaagtact gtccttaaag acaaattaaa tgggtaaaag gtcctatnta	360
acagaagaat acaaaatttt aagctttggt taataagata ataagtgtag tggaaatttt	420
taaattaaca tctcccttat atgtaatatt cctgagttgg tggctcaa atcataaaga	480
acttagtttn tancctttatt ataacattgc attntatntt tgaaaaacaa aaaagnnttg	540
gtnttt	546

<210> 8117

<211> 594

<212> DNA

<213> Homo sapiens

<400> 8117

cctttagaca tttacaggta tttatttgag taagagctca taaaatatat ttttataata	60
tgcacaagaa aaaatacatt tgaatgaata aaaaataaaa tgacaggagg tgacagaatt	120
tagtgtttat aaatgaggtc ataaagaact ttaataattc agagaagaag ttcaaagtgt	180
atttaaaagt tgagaccctg ctttacaata ttttataatt ttaaaaaaag gcgtttaaag	240
gtgatagggtg acttaataat tttccacttt caaaatgggt ttctagacac tgttgttcat	300
gaaccaaaaa caaacaaca aacaacaac aacaaaaccc aaacacttg gcaagcaaag	360
tattattagt acatagcagc ttcataacag tttacttttt taatataaag atttttcaat	420
ttacacttgt aggagtagaa aaaactaata tgctaagtct gtaagctacg cagcaaaaat	480
aatgatctta atgaagccag aattctgtga aaatgtgcac ccactgcata tatagtagct	540
gagtaaattgt aaaccatgtg cttattaact cttctatata aaatatggac cccc	594

<210> 8118

<211> 562

<212> DNA

<213> Homo sapiens

<400> 8118

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acagtataac cgttacattt tattattagt tattgttgtc aatctcttaa ggtgcctaata 60
tcataaactt aatcacaggt atgtatgcat aggaaaaaaa cagtatgtat aaggtttggt 120
attatctgtg gtttttagaca tccactgggg gtctggtttt agatatccac tgtatcccct 180
gtggataagg gggtaactgc tgtatctttt agtagaagca agagcagccc catgtggggg 240
ctaacttggt acactgggtca gtttcagctc ctcatgcaaa gtgagggtat ccttggtggct 300
ccagccctgg ggccccctgc ggtcaccttt ggctccacag tctggttctt gaacccaagg 360
gcagacagct tgctacagcc caggcctgag gatgcacttc ttcaccagga cccacaaccc 420
ctgcccataga agacctgtgg agctcanggc atccctgatg caagttggtc angacctgcc 480
cagcttgcaac caacanggtc tgcgtcttca tntgaccagc agaccttgna ctnttcacca 540
ctggggganga ctaaaggntt ta 562
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<210> 8119

<211> 549

<212> DNA

<213> Homo sapiens

<400> 8119

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cttttttagga ctattcaaag taacaaactt tttttgttgt ttttttttgt tttttacatt 60
tttgctctgg tcataaatat acagagaaaa agaggggagag aaaaatgaac aagtcattcca 120
aagtatggag ataaaacagt attcctaagg cacgtggcag tctttgaaaa tacagaagct 180
ctagccaact taaattattt gttgtttttc ctgctcagc ccacaaaact gtacagtgc 240
acaaatgttg tgttgccagg agatcttcca agttgttcct cggtccacac cgctgcatta 300
gccggggcgca cacttctttt ttttacctct gtttccaggc gagatcctaa aatgtgggta 360
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agttagtgtc tcaaagcctc tattttaaaa tacacttggā attcaactaa agataattnc 420
 ttttttaaag aaattgnggg gtgaagggtt gcgagtcatt agaaaaaggt tggtaanagt 480
 cnttgnagg ggcttaaggt tatggccttc caggttgcca gccccnaagt taagaccggn 540
 cnccaantt 549

<210> 8120

<211> 536

<212> DNA

<213> Homo sapiens

<400> 8120

caagagacag ggtcttgctt tgttgcccag gctggagtgc agtggtgcaa tcatagctct 60
 ctgtagcctc aaactcatgg ccttaagtga tcttccttcc ccagcctcct gagtagctgg 120
 gactacaggc atgtgtcacc acattttgta gagatggagt ctgctaagt tgcccacgct 180
 ggtctccaat tcttgggctc aagtgatcct ttcacctgg cctcccaaag tgctgggatt 240
 acaggcgtgc ctggccacag atgagaggat ctctgcagca gatagtactt gtgggtgcga 300
 gacctgtcca gggcttgatt tgaggagagg agcctgaggc ccctgcctgc tccctgggtgc 360
 tcaggagctg ttcttgggcc cctgttgttt cctccgctgc cggcccaact ggcggaagtg 420
 caccggttg gggttgaggc caaangcctg cantcttttg gcggctgaac tcgcattcac 480
 caagcattac antnggggnc caanaaccg gccttnttgg gccttcttcc gctttt 536

<210> 8121

<211> 565

<212> DNA

<213> Homo sapiens

<400> 8121

atttatgaaa cagtttattt ataaaaacag tcataagaaa gcagaaagca acttccacta 60
 gctatgtgag attttgaaag ttctcgaaat cagcttatgt aagagactat ttccaataat 120

aacagaaggc tacaaaaatg tcagaccaaa atagtaggca gaaggtagaa aactaaaccc 180
 tgagaataat agtcattaag aagaccttga tgtagacatt gcatatgagc atggagattc 240
 aggaaggaaa ttctggatga ctggtggctg acaactttca aatataataa atagagatag 300
 gacttcaaaa gaacttcaat aggaatatat gattttatag tagcacctgg ccttacttag 360
 aataaaatcg tttgttaciaa ctaaagccag catacatgat tcgcaatagg agtaaacttg 420
 ctatagacat tcctgncctc aaatgatttt aaaacccaat tttctaagac ctcntggaac 480
 ctccagagac cacttgggta agttctggta tatctcatat ttaaangctc aacacctgaa 540
 aagctcaggg attggaaaac tntga 565

<210> 8122

<211> 535

<212> DNA

<213> Homo sapiens

<400> 8122

gttaataatt tgaagatggt tattgcattc tatttttggg gggaaaaaaa tgtaacatac 60
 atttatttag cagcagattg tgaaatacac aaaacatgta actgagaaag caggaatttt 120
 ctattcctag tccatttctg aggactaaat catgaactgc tcccaatgta attaaatatt 180
 tcttacaata gttgggcacc aagttaaga tttattaatt ttctcctctc agtataggca 240
 gcaattcacc attttctttc agttcctaaa aataaaaaac aacaataata atatgtatat 300
 gcatatataa aaagatggaa acatctaaac aatcacagct tgtatgtata tctgagaacc 360
 aaaagaaaca cctattggat taaaactcca gtctcttaac actctcaaac taaatgagcc 420
 ataaaccctg aatacactat canggtaaaa aatttaacca ngnattcttg gncaagtgtg 480
 gnggctccaa atgtaatncc agcacttttg gaggcccagg tggcnaaaca cttga 535

<210> 8123

<211> 573

<212> DNA

<213> Homo sapiens

<400> 8123

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aggttctgcc agaccacctt ttattacatc agaaaagcaa cactaggcac tagatcttgc   60
aaaatatgtt ctgaccaact ctaaactgtc tgaagttata accatatcag taagggtttt  120
aatgaacaaa aaagttaa ataaactttc atatgcaaaa tagattattg tataactggc  180
aacctcagag ccaagtacta aattttcttc cacaaatttc agtggggatg gagtggggag  240
atgttagtct taatgagtag aaaactta attagactta tatatagaaa acaaaaactc  300
tgaggaaaaa tagcttttaa ttgaatagta tcttttgaaa taaacagctc aggccagccc  360
ctacaattct gaggtttata ctcaaccaga tctgggatga aaatgaagat ttagggttta  420
cagtacttca aatccatgaa tccagttgga agactaacc agtcaccaca tttccagaaa  480
ggggagtctc ttttaaggga cccacactt tttcggaaga ngccttgggt aggtcanant  540
cccttgggca caagttccac tggttacggg act                               573

```

<210> 8124

<211> 584

<212> DNA

<213> Homo sapiens

<400> 8124

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gggacggagt ttcgtgttgt tgcccaggct agagtgcaat ggtgccgtct gggctcactg   60
caacctctgc ctcccagggt caggcgattc tctgcctta gtctcccagg ttcaggcgat  120
tctcctgcct cagcctccca agtagctggg attacagggt ccaccaagca cggctaaatt  180
tttttgtatt tttagtagag acggggcctc accatgttgg ccaggctggt ctggaactcc  240
cgacctcagg tgatccgccc acctcggcct ccaaagtgc tgggattaca gacgtgagcc  300
acagcaccca gccgggactg tttttactgg aggaggggga gaagacacac agtggggaaa  360
gcgttctttc aatatgcaga tgcttcaggg agaaccacac tatttactg gtattccccg  420
taccaccgga actggtgctt ggagcggaag ggaagtgaga tcagtccant agtcaccaac  480
accattatta gcattgncca aaaagtcaan agccgacatn atggaataaa acacttgctg  540
gcaatttatn tgcccttttt naactctctt atttttaggn anat                               584

```

<210> 8125

<211> 605

<212> DNA

<213> Homo sapiens

<400> 8125

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aaggaatatg gttgcagcaa aacagaaagg atcccaaagt ggtaggggc cttgtctaata 60
gcacttctga aagtccatta taaagatgaa tagaaaagca aatggtaggt tttcagttga 120
cccagaaacc acacatagct ataagaaaca taattgngca tagttattta ttcattcaga 180
atgtgatatg ttggctagct ctacattccc agtctaccaa agaacagggc tgtctacttt 240
gctaaaccca gggtcctttc gaagctccca gtaggtgtcg ttagaaaccc aggcttctct 300
ttgattggca tcaataactt ttttaaaaaa ttttggnata tgttcaagat tggtttcttc 360
catatatcgg ctccgagaac tctggagttc ctctactctt gnttcttgaa gctggaactt 420
ctnaaattcc ttttccaaaa actttgactn ggccggaanc cggccgtttg ttggtggaag 480
gagatctttt agtcctggac tactcattgg gctcaanncc aaccttgggg aagccctant 540
ccagttcata gttggtggca tggaacctgg ctccaaagc nctttgcaa nggggcncac 600
ccnat 605

```

<210> 8126

<211> 508

<212> DNA

<213> Homo sapiens

<400> 8126

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agacaagtta cagtttaata atggtggtgg tgattgtttc tttcatttta ttattattat 60
ttttttacaa taagggtgta gcctttatac tccacacaca caaaataaaa caagtgctta 120
ttacgaaaag agtcctgcc cccacccctt agaacatcct gaacatagca attcaacaga 180
acagaaaaat caagacgttt gatttcaaaa tttcaataaa aaagcaaaag tatgtaatgc 240

```

aacagctggt caacttccaa ctctaaatag gcaccattaa acaaaaaacc ccagtatttt 300
 aaatttctcc agcacacatt ccaggatcaa tgctctgaac tgtaatcagc tagtaattca 360
 taacgggaat acagccttag aatggaagct atattgcttc cctgccccct ttntntacaa 420
 ttggaaagtg tanggattaa gggatccaan tcngaaggag gattatttaa aaggaaaatg 480
 nccaagctg cactgtttgg cnttgga 508

<210> 8127

<211> 596

<212> DNA

<213> Homo sapiens

<400> 8127

gttttagct gctttacttc caaaaagaaa aaaaggcata gctctctttt tcaattaaac 60
 agaaaactac ataattacgt tcaaacactc actgaagagc ctgcctcatg ggaagggcag 120
 ggctgtcgtg ggaagagtca gctgcacttt ggcaccatct caggtgcctg tccaagccgg 180
 atctgaatgg gactgggtcaa gtgaggggtc agtcctgcag tctgcgtca cacctcttct 240
 ccagatctgc catctccttt aggaccaggg ccacgctgta ccgcagctcc tggaacttgg 300
 ctgtggggac ctcaaagcgg tatgctgacc catctgaaag cttcagctgc atcaggacgc 360
 tcggctgcag ggagcgagcc agggcactgg tggagattgc tacatcacc gccaccgaaa 420
 gtcagcaaca tgcngnaacc aagccccctg ctgctgggcc cagaatcaag gangggcccc 480
 tggcttccaa ataccacgct tggcaagttc ccgaccaggt ctttggggga tgcaaaactt 540
 ctggancttg ggcccgaaaa attangcttt aggttgtggg ggcaaacgan ggcctt 596

<210> 8128

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8128

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 ctcaacatca tttacacttg aaaacagaaa agcncaactt ggtaaggcac caggttacga 120
 tagtctggan anaaggcctt gctcccattt tggcttgngt aatacctggg tagtttctct 180
 tgagtctgtc aagcagagaa caaggttata aaagggtccat ttatacatac atggtaacaa 240
 gagataacaa acagttttga agtatgctgt atttataaat tataatggng gcctacactt 300
 gtagttcagc caaagtggca ttctctaaag caaaattctt ataaaatctt ctctgcaata 360
 ccaagctgca agtttaacaa ttttttagct ttgaagtga ccaactttat atttaactca 420
 aacacatact ttaaaaaacat tttcgggccc aaactntatg ttcacgaaga aaataaaaaat 480
 ggnggaaaat ctacaggttta atcggacctt tactattcta ttaaagccg caatntnttt 540
 taaaaaccgg tggcntttaa nggcaacccc ttgaatttta accctaccg 589

<210> 8129

<211> 418

<212> DNA

<213> Homo sapiens

<400> 8129

atttgtacat ctttattatt tctaaagcac tttcctcaac ctaatttcag tttttacaat 60
 tagtactcaa gaaaatagag acagaaatca tttgattitg cccagaaacc atctgcttat 120
 atttataagg ccacctaatt tgaaatcaca tatagaccag gcgcggtggc tcacgcctgt 180
 aattccaaca ctttgaagg ccaaggcagg tggatcacao ggtcaagaga ttgagaccat 240
 cttggccaac atggtgaaac cccgtctcta ctaaaaacac aaaaatcagc tgggcgtcgt 300
 ggacgcacc ttagtccca gctactcggg aggctgangc aggagaattg cttgaacca 360
 ggagggtggag gttgcantga gccgaaattg ngccactgga ctncancctg ntgacnga 418

<210> 8130

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8130

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acatgcctca cttttttattc caagaaaaat cccattatg caatacaagg gtgaaacagc   60
tgttacaaat acacagaaac ataataaaga taaccaacac tgттаagagg aaggggaaga  120
ggaaaaaacc caagagaagg aaacttttcc acagtgacta gcagaatgtc ttgtagatac  180
caatgaccga agacaaacag gttgctcact tcctcctatt tatcaagtca tcctatctaa  240
aatgagaata gticatgcct aggataggct aactataggc ttgctagtc ctccttccta  300
atagaatgcc ctcagattat tcctgagcta tcactcaagt cacagatact tcagaatata  360
atcttaggtt ttgtaaacag gaacatggtc aaaatgcaat acaatgggaa aatctctaca  420
agagaatgag atttggaag ccattgcttaa agtctctgag ccacacaacc cttaagaatc  480
ttcgagtacc gtttaatctc tcattncagga acanttttcc ttacccttg naaggttgtg  540
aanaaatgaa ttgcnttatt ntgccagaaa gctttcccat ggaagggn          589

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<210> 8131

<211> 481

<212> DNA

<213> Homo sapiens

<400> 8131

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aaagtga aaa aatcttttac actttatgta aatgatactt aagtatgaca aagaggngat   60
aattcaagtt cgtaactagt aagtcactaa aaagataaat gcattcattc atgtaccaca  120
aaatcagaga agacacgagg acatgccgca gtcagtgaaa tagccgagaa atcaacattt  180
tactagttat ttgttcccaa actattacca tgtgtgtttg gtatgttaac aatttaaata  240
tccacattag gctaaacaac aagcacctgt cagcagtgga aacaaaaca ttttgatgct  300
aaaaaatata caagatattt agacgctatt tcattggttg tcaaaaacag tgactactgc  360
caaataatta aatttaaaat attgtgccag gtcctctcag ggaaatgtga aaataatact  420
gacgatctca ttgncattgc tggatattta ctggaattta accaanggn naagntntna  480
a                                                                 481

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<210> 8132

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8132

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cctgaattag aagaatatgt attgaacctt ctcttgaaca gaatgacgag ccttttgaag 60
attnatt taaaggtggt atgttcttaa atggcattaa aaagttacga aaatccatca 120
gtacagattt tagtgaaggt tgctccattc caactggtaa aacacagaag taaaatgcca 180
gtctcagggg atctcaaaaa ttcaggggaa gagtcagtat gtgttccaaa tttaacaat 240
ctctaccaag gagttgcctc atagtgttta tttaaattct aaatcaagca tggaagtttt 300
cagaatattt gatattttca taaaatgtcc ttggaatata aaactaataa attcaatgaa 360
gtgccacacc gccaggggtt tacctgcaaa atctcagccc tgactgaaca aagcccaaca 420
attngtcca aaaggaggagg ctggtatttt cttttccctg ataaagaaac cagtggagaa 480
agcncnatgt tcccttngc tnaattcatg gttaagggtt tttccccaag ancttgtttt 540
aaggccngct ngataagaag ccttcctttg g 571
```

<210> 8133

<211> 592

<212> DNA

<213> Homo sapiens

<400> 8133

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gagctttaa ctgtacttta attttcaata actgtaacct actggttaat ngaaccaaac 60
gtagagtatt taaatgactc actatgaagt gtgtcaaadc aatgatagaa tgcatagaaa 120
agtggagata agtttggggg aaggtgcaag gtgggttaat gtgaaaaacg gtaaattgcca 180
gttttaataa caaaaatggt actaaacgca gatgaacatt aaattaatac agtataaaag 240
agaacagctt aaataaactg gtattcacat attacaatag caaagttatg acagaatgaa 300
ctgaagacac gaacagtttt gaaaattctc ttttcagcct acttccaaat agaaatagtc 360
```

aggctttttt cctgtacata gtttgatgct ttgtctatac catatatagt agaaaaataa 420
aattcttttag caacctagaa acagttataa aaactcttaa aggttaattt ttctttgcca 480
gacatgccaa ttgttaaact gggccactnt taaattaaag cttttttgac cataggggtt 540
aagtaatttt nacaggggta gnaatcctcn tttnccgatt ttttttaaaa aa 592

<210> 8134

<211> 463

<212> DNA

<213> Homo sapiens

<400> 8134

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gaatcacaaa atcgagcacc acacagctgg gtgtcggcga cacactcacc atgacagtgt 180
tccacctcaa tgtagccact ctctgggttt ctgtcagct tccagatatg cacaaggtg 240
tcctcacctg cagagagtag cttgcccacc tcagaagcca ggtccagggc gcagatggcc 300
cgggcatggg cattgatctg gacatgtaga ttctctgtag tggcctcata tagatgcact 360
tgtccgttcc catagcctgc tgctatgac ccctgccaca gctgcacaga ggggcacgga 420
actccaaatc ctggaatgcg ggtcaataat gtgaatnnnn nnn 463

<210> 8135

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8135

atggaagcta ttaagcttta ttttttaaaa actgaattgt atttacaatg tagaacaagt 60
ctataaaatt gatgtgcagt taattgtaaa aggataacac tatttgttta gaaacaagct 120
gttcctctg tttatatttc cttattcttg atataaattg gagacagata ctatttaaaa 180

ataatgcttt ttaaatagta aaatatacaa gagattcctg agcataacaa aaatatcttg 240
 aaaatatgtg gctatttgaa gtataaaata gcaagtgtaa gaatagcatg attgtaaaac 300
 tactgtttga aggcttataa acagtacaaa atagtttgcc ttttctgact gcataattat 360
 acattagtgc aaacaaaaat gtctcaaaat ttaatggcta caaatctcaa agatttgcag 420
 aggtgcgcaa aacatggaat ttcttttagcg tcatgcgaac tgaccagtc tcgattaatc 480
 cctttcaaac gatcttccan gnttncggat taatcttggc tgtaaagtgg attcgtcctc 540
 aaganaagna ttctgcttaa cgctgcctaa tctgggcctt tnttttgg 588

<210> 8136

<211> 573

<212> DNA

<213> Homo sapiens

<400> 8136

gccaaattga atcaacccca atgttttatt taatttaaag ttttaaagg cagtgggttaa 60
 gcacattatg tatatatgta tatatatgaa tgtatgtacg tgtgtatata catacatata 120
 tatacaggaa accaaccctt tttcaacttt agccactgat gagctaggcc cactgtctag 180
 tgcatgactc actttctact tcttcatagg accaattcta aaagtaaaaa taaacaccct 240
 ttatcagttt aacagtaact aattgtgttt ctttttttta aataaataaa gttactatta 300
 aactgatcac atatggtaga aacgtagaac tcacacacac accagcacac acagtcccca 360
 atttaaatg tgatgtatga atgacctata tgtacaaatg ggtgctgctg acttccccac 420
 cccaagcaga ggccatgaaa gactnccatt acttcaggga gtccccattc tctatgctgg 480
 gatggaggat gtgtggngtn ctngcacccc nggntagaac ttagaatgca cacttcccat 540
 gcgctgatnc anatgggggg tcaattctat ggg 573

<210> 8137

<211> 345

<212> DNA

<213> Homo sapiens

<400> 8137

gaaaccaaac cttttattca ctttaattca attaaangnt actgagcaag ggcttactca 60
ataaaatcaa caatgaaaag gccagctggc caggcaccgt agctcaggcc tgtagtccca 120
gcactttggg atgccaaggc aggctnatcg cctgatgtta ggagttcgag acagcctggc 180
caacatgggtg aaaccctgcc tctactaaaa atacaaaaat taggctgggc gcggtggntc 240
atgcctgtaa tcccagcact ttgggaggcc naggcgggtg gataaccaag tcangagatc 300
nanaccatcn tagccaacat gatgaaaccc cgnctttant aaaat 345

<210> 8138

<211> 592

<212> DNA

<213> Homo sapiens

<400> 8138

ggatttaaaa acactttata gtgtgttggt tttattgagc gctcacaccc gaaggggtgg 60
cggcggtatgc tgtgggtgag tggggccgcc tgagcctgct cgggccacat ccacacatcc 120
acagagtcca cctggactcg gaggaaggcc gagaggacac ggacggtggc cacaccacgc 180
tgcagtgaag gcccaagtgt gatggcagag aaagagggaa agttggagaa agagcggtat 240
ctgacaataa cttttctctt ggatgttaat tttttgtct ataaattgga aaggaaggct 300
cggactgaaa taaatacatt tattctgagt aatgaccttt tgggagcagt gtccgtcaac 360
tctgcttcga gagcgtctcc acgtgagcag cancgctgt ctcgcgcctn gccgaggcgg 420
aaccacaccg gccttcaacg gangcgggtt tctnctngnt cttgtgaang gaaatanacg 480
gtgcgtactg gtcttaatgg aaccggacaa tgaaggcctt ttnttttgac anaaaaatgt 540
ccggcttaac tnttccaaga naaganttgg ncctaacgtt tncgtttttt at 592

<210> 8139

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8139

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ctaatttta gttccaggat acaagtgcag aacatgtagg tgctatatag ataaacatgt 60
gtcatgggtg tttgctgcac ccatcaacct gttgtctagg ttttaagccc tgcgtgcatt 120
agctatttgt cctactgtc tgcctcccct cgacccccac cctctttaa attcttttta 180
ttttccacac tgagtcttca aagtctggtg tgtatcatac agcacatctc aatagccaca 240
tgcaggcagg gcgcggtggc tcacgcctct aatcccaaca ctttgggagg tcgagggtgg 300
cattggacga tgcaggctctg gacaagtgcc tggatatattg tgggcacaat tcttgaatgg 360
acccacgcca atgtacgcgt cgcttttgcc tgggccgttc cttcttccta gaatgtcctg 420
cttctttctc tttgctaact catgtgaatg aacttttta aaaattagta tccttcaaaa 480
ctgnanttgc ttaagcgttc tgaagtgang ncctctgact tttcaagtgc cgggtgcttct 540
tgntctgggg ctnttaactt caaaagttgg tctgctgngc ctanttgg 588

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<210> 8140

<211> 584

<212> DNA

<213> Homo sapiens

<400> 8140

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aggtaaaagt tgggtggcttt attcttcctg ctctataagc agatccaggc cctagaaaga 60
tgggaccagg gtatataatt gtttttgaaa agtgtgtctac aaaaatggat ggcctgttat 120
aagccaggat acaaagttaa ggatgggggt aagggaggga cattttcttc cagaagaaaa 180
gacagaattt ctgaagagtc ccagtccata attttcccaa aatggttga ggagagggtg 240
aaatctcaac atgagtttca aagtactgtc tctgtgaggg gccggtagat gccttgctga 300
ggaggggatg gctaagtttg accatgcccc atccccagct aggagaatgg aaatggaaag 360
tttattgccc agtgggtgtg aaagtgggct gaagcttggt tggtagtga ttctctaaga 420
ggtttcttct agaaacagac aactcanact ctctctctca cttcagcaaa gaagttat 480
ttnaaagccc ttgggaaagt tcctcctcca cccgcangtg ggaaggctca aaaaaggggg 540

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cattantcca gccgctttta ggccgnaccg gaattcctga aggt

584

<210> 8141

<211> 570

<212> DNA

<213> Homo sapiens

<400> 8141

acatttatca tgtaatttaa tctgcttttt tgnatattag cttttacata tagaatcggg	60
tatctcagga tccctaatat ataaaagacc cgcataagaa aaaaacattt gatgatatgc	120
ataaaatcac aaccacaata attggaccat aattagacta gttaagagat gaggaatata	180
tgctcatttg taagcgataa gtgattatat aaagagaaaa catgggttaa gtaacacagt	240
aacattaatt tttgtatata aacaaattag ttatctcaag tccttaaaag tttacatcta	300
aaaaaacagg tcaagatgaa gaaataactt tgtagtttaa acttccacat gtgctccttt	360
gggtggtttt gccttggatt ttgcttcctt tgaaatcttt ccattttgac attgagtaaa	420
tctggctctg nagaacacac atccacaaac ttggntttga aaagaacgtt tgcattgggtg	480
acatccttct tttagggacc cccatgaact gngaattngt gaaatgggtc cccanattgg	540
ccatgtttgg gatganaaga ncaagnttct	570

<210> 8142

<211> 582

<212> DNA

<213> Homo sapiens

<400> 8142

gccttcttat tttaatagga tcatgtctct cactttacaa attctcaaaa catatggntc	60
cctttttaca tacatatata aacactttta aacataaata tcaaatgcat gagaatcatg	120
tgggcagata aatttaggaa gccaagaaca cagaacgaaa agccagtcac cagatcttac	180
aaataatcat ctaaacttct ctggccattc aatttgatac attatcccaa atattccatg	240

tcacatggtc cacaaggntt tcttttggga ttctgaagca atcaatagcc atacttgtca 300
 ttaagatggg ttctgccatc tccactttga ccttcagggtg ggacccacac acagtagtct 360
 gggtcacatt caggatattt ggaagaaagt gttgggtgaa gtttgcctgg accangtggt 420
 ttctttttct tcaattcacc tctgcttttc tcatattcat tctttgatgc tganggtcct 480
 gcgcacaatg naatggggtt gctacaggcc tgganaactt aatccggntt tcctcgctta 540
 agtgaaacat gggtttcatng ggttnggggtt ctttaaaagg gg 582

<210> 8143

<211> 576

<212> DNA

<213> Homo sapiens

<400> 8143

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 aataggaac aatgtggagt actgctgtgc tngccttca ttacctgaga ctacagcagc 120
 ctgcattntc caccgggctc ggaggagtgc anatgcctga ggtaaagcc ccagggtctn 180
 ttcaacagta acccacccca ctgataagtt acatgatacg tgtgtggtgc ctgtgagtgc 240
 ttctgttgga aaggcagggt gaaaaaaatn tgacaggatt ttatttgatt tctccgtagt 300
 tcttctcagg gtttatcttg atgtaaactt gaaatattaa gatagccagt ncagtaagaa 360
 atcaaaagaa tgggagacat ttaaaaactc tctatattct aaacttctct ttagngttgg 420
 aataattgta aaaaaaaaaa aagttggccc taagtctgcc tttatagggg ccacattaat 480
 ttctaaattc ttggatttct aggtaagtca gggaaaaggc aatttnttta acaggcagcc 540
 cnatcaaggg tgcttttanc cctggaacct anangg 576

<210> 8144

<211> 563

<212> DNA

<213> Homo sapiens

<400> 8144

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gatgtgcccc atcaattctt ggtttattct tttccaaaaa gtaaaataac caaagnctta   60
aaagtacaca aaacagacct tcattcttgc attcctttcc aaataaaccc aaaaagtatg  120
tacagcatgt ttaatagtat gcaatatgca aaagctttgt gttgctgtta gcaacatcta  180
taccaccca cctcttttat tcacaagtgt acctctgcta accataatta catcactaag  240
cctgttagtt tgagaggggc ttaaatttgt taaaactgga aaatctttgt ataggggctc  300
cattcatttg actcaagggt atagacttcc accgtattca gaaattcatt gccatccgaa  360
tcctcccact gcataaatgg ngtcctaca gttgcaatcc cagcattgct ccttggtgaa  420
gcatatttcc catcatcttc cattcatttc tagttgggat catacatttt ccacaaactg  480
atggcatgag aaccatcana ggnccccaca tncnaacagg gtttcntta agaacagnca  540
cttccagttc ttgcctagcc cnc                                           563

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<210> 8145

<211> 578

<212> DNA

<213> Homo sapiens

<400> 8145

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caatttattg ctagaatttt atttggttgt tagaaaatct gtaagggtgt atatatatta   60
aaaaaagggt tggggtgaga gtggatggaa ggcagtcaga agggtgagag ttattttcaa  120
gttacctaaa gtgccaggct aatttgtttt aacctttcca agaaagtga actgagcata  180
agctataatg agataagggg acacattcat gggaaaagac ttcattctgc tttaactaaa  240
ttttaatact tctggaaaaa aaatttaagt ttggttaata ccaagctgaa catcatataa  300
agaaaaaaaa aaacagccct taaatgttta agggatccgg actgtatcca tggatgaagg  360
ctacctgaac aaagttaaaa aggaaatgat ctccactaaa gaagtctgtg gcatgacagc  420
tttcttact ttctccctga ctggcctat accaaagtta agtttttgga gtttttttn  480
cccttcaagt tgttgnccaa aaactgnttt ttaagaccac ccagcattnt agactcacct  540
tcccgaaca tggaggnatt attccttcaa ctanggaa                                           578

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<210> 8146

<211> 563

<212> DNA

<213> Homo sapiens

<400> 8146

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caggctgaag aaatcgttta atccatttta aagaaatctc acatgatgtt ctgtcgggat   60
taaaaatata cacggaaaaa aataaaacaa aatatatacn cagaaagaag ctgcacaga   120
gtcaggcgtg cagcaacgtc acacactcat tcctttctgt ttcctctgga cactcaaaat   180
gtgaaagcaa gtaagagggg ggtggttaac caaacctttt ggtccaagga ataaaatttc   240
tttaaaaaat ttaaaacgtc aaaacctgcc agaataagac aatagaagag cgtatcgtca   300
ggcgtggga atggcaccac gacaaggcat taatgtggat tcacttgac agctgctctc   360
ataaaagcta cacgattcag aggtaaccct aactatccgc aatccaacc aaagtcatgt   420
tcatgccgct gncctantct gggacaatca tctgcactta ttcaacacag ntntttccga   480
atgggccagt cccagcaaca agggtnattc agcaggcgtt tttaccgga ctcatgatgg   540
gattcatttt naaatncttn nac                                           563
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<210> 8147

<211> 591

<212> DNA

<213> Homo sapiens

<400> 8147

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gtttttaatc aatacatatt tattgagtgc ctactgtgtg ccagggtgcac cacactagat   60
gcaacggata ctaacagtaa ataagatacg gtccctgccc tcagagctta catttcaaca   120
gtttaaagtg catctcaggt atttcagata acagaagtaa ttctaccact ctcaaatttt   180
tttttttaat gcaagacaca acacaatcat aggccagagt tataaaatac aatgttagaa   240
agaaacgttt ggtatcattc gtccagatcc cattttacag aaaagaaact acaggagtgg   300
ccatttgcac ctatgttctg atttcaagtt tgggtgtttta cccattgccg ggcctctcat   360
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aaaacaatat tcagatttgc catgtatata tcaatatcca aacgctggta gtataacctgt 420
gcaagttgtc tcctgctaga caaggaccat ataatttata gcttatttaa gtgtccactt 480
tctttatccc atcctattct ttggggataa accngaaggg atcanggtta acccaaggct 540
taacttttgg ggcaacttta ttgccctaag gattcaaaan gggccaccgg n 591

<210> 8148

<211> 575

<212> DNA

<213> Homo sapiens

<400> 8148

acttttttca atttttatta tggaaaattt caaacatata caaaagtata gagaatagta 60
taatgaactc tcaaacatcc atcacacagc ttcagcaatt accaatttat ggccaatctt 120
gtttcatcta tgtactcaat taccacacac tcagatgatt ttgaagcgaa taccagtaac 180
atatcatttc acctgtacat ttttcagtat acttctctaa aagataatca ttttttaaaa 240
caacataacc acagtaccat atcacatctt aaaaaacaat aaatcaagaa gttatatattt 300
tatttcaa at tatgtaacaa ctggggacac aatcaatata tttcactggg atcatgagga 360
agagtgtcac actaaaatgg agtccaagct tttatcgatg caattgcttt ataataataa 420
agaaaaaatc aaacaaacta gcatattaga accacttttg gnaatttgta aggagctgaa 480
gactgntgat atcccatncc atggngaact ccgtagaatt cttctaacat ctttgnnatt 540
tcttaaaatg ggtctggagg cactgatgca agncc 575

<210> 8149

<211> 591

<212> DNA

<213> Homo sapiens

<400> 8149

gagatagagt cttgctctgt cgcccaggct gaagtgcagt ggcgcaatct cagctcactg 60

caacctccac ctccctgggtt caagagattc tccctgcctca gcctctcgag tagagtacct 120
aggactacag atgcacaaca ccatgaccgg ctaatttttc tatcttttagt atagacggga 180
tttcaccatg ttggccaagc tggctcttgaa ctccctgacct caagtgatca gcccacctcg 240
gcctcccaaa gtactgggaa tacaggcatg agccaccatg cccggccagg aagattttca 300
aataaatggc cataattcag tgttctgagc tctgtaacaa ggtgtacact aagtggtagg 360
ggagcagagg cagggatgtc tgtcttatcc tagagggaaa gacaggggca ggataagctt 420
tttgaggaag aagtttgagt ctaatcctta aggaagaaca tgttggaac atttgagact 480
nttaagcagt cacaggcaca tgggaaaagg nagtttctga ctgcaaaata aataccggta 540
ggagaaaagg gaaaattgac tggatttgga tgaccgcgnc ctttaaattt c 591

<210> 8150

<211> 597

<212> DNA

<213> Homo sapiens

<400> 8150

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aacattcagg aattaagtga cgaacgcaga gaactgtaag ccgccttggc ctccaataac 120
ccagtttcct tgtgaggctc ttaacatctc cacacacaca cactcgcaca cacctgatgt 180
ggaaatcaaa ggaaaaagaa aacaaagcca aatgtttgtgt taatcccgcc ccgccccaca 240
aacccttaaa gtcttaataa ggaaactagt gttctgcttt ctcatataaa cacagaaaag 300
gctcgataca atactaaggt ggatacaata ctatgtcgca caaacgtcgt tgagtgaggg 360
gcctctgctc ccagtccttg aagttctgca aaggaatcac ctactttcac gagtcacctn 420
acagatgccg gttgcccaca gcccgggang ccatgcacac gggcaggcgc cgtgaacatt 480
ttcccgtgcg gtaccagact ttgnggcatg tggctttaag tgctgatggg gcnggggtggc 540
nttnaggacg gcaggagccc cntaatgatn tgggtgaagt catgggctcc tcccccn 597

<210> 8151

<211> 564

<212> DNA

<213> Homo sapiens

<400> 8151

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aaaattaaaa atgttttatt ggctattgcc tttaatagat ttactacaat aaaggaaagg   60
aatatttttc tcaaattgtc taataagaaa aagaccacagg aaactgaacg atattggaca  120
cagttttcag tgttttagac ataaataaac tcatgaattt catatggatt ctggaatatt  180
taccactact cccctaacga tgcatttagc atagaacaaa aatatgaaca ttggaacaag  240
tccaatctaa cacatttcaa aacaatcaga tctttggaaa actgttttcc ataagtaccc  300
cttgccattc atggaagagt tatgaggatg cccatgaatt tattcatgga cactcccata  360
ctaagaaaaa gaaaaccatg tagatgggta atataatttg actatttggt cccgccccaa  420
cctcaagttg aaatgtaatc cccaatactg gaggtggggc ctggtgggaa gtgtttggag  480
cacaaangng gatccctcat gaatgggctg ggccttcct tnggggaaaa agacttcttg  540
gtctgaagcn tgggccnnnc ttg                                           564

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<210> 8152

<211> 578

<212> DNA

<213> Homo sapiens

<400> 8152

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catggtacaa atgataaatt atatttatac agtaaataag tatcaacggt caacacaagt   60
tcaaaaccag ccaccggcct ntgggactga naaacagctg ggtgatttcc tccaccacgg  120
ngcccatcag gagggagcac gatggcacag gtgcaacatg cgtggcagt gcccgtggct  180
tcatgatcag tgcagtgggc aacagggaca tgcactcggg atggcctgtg ccanaanatg  240
gggcaggggg ctgtcttctt ggggtcccgt ggcccagtgg ctgtcatgtc ggggcctcaa  300
agtcacatca tgaaagactc gttacaaaag aatcactgac cccaagtagt cgagtctagt  360
ctactgacct gtaaggctgg cccaggccct gcaccgtctg aaggaaagca ctttctggg  420
caagcatcct gcctcccatc ccattgnacc tccccaccct tccccggcag acnagaccac  480

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ccccgggtta cccaaatggc aacgggagcc taaaaccanc cnaaggctgc aatttttgga 540
aaagnggntt ggtangaacn ttaaaccggt tctnggga 578

<210> 8153

<211> 578

<212> DNA

<213> Homo sapiens

<400> 8153

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ccagagagaa cactttatac cataaaataa acttgtataa tttgggagga caaatcatct 120
caaatgtata tttttgaatt atgtgccaat tttataatta gtacaaaaat gacagctgaa 180
atattttaaa aatgtaaaaa ccagtccagg caacataact ataccatctt gctgtaaaag 240
tacttatatc gaattccgca caaaatattt ttgcaatatg ctaaatttag ttcttcaagt 300
cactcttcac tgccggctgg cttttccatt ttctgttgtc tccatcccat tttcctcttt 360
aagatgttga tatagttcag ctctgttatt aacagagttc aaacgtccag caaatcctg 420
atgttttctg gaattggcag tattgattct attactccac aaggataata acgacactgg 480
ggccctttng atttttcccc ttgnggagtt catccatttn accanggggt ttttggttgg 540
aaggtctngg gaatcagcga actttataat cnagcttn 578

<210> 8154

<211> 595

<212> DNA

<213> Homo sapiens

<400> 8154

ggaggcggag tctcaaaaaa ataataatta taaaataaaa taaaaatagt tcaaaacaga 60
tcacagacct atgtaatgct acaactataa gactattaga agaaaacata ggggttgcta 120
tagtttgaat gtatccctta aaaaatcaca tgttggaac ttagtcctc tgccttcatg 180

aacagattaa ttaataaaag ctttgccctc atacatggat taatgtcact atcatgggag 240
 tgggtttgtt cttgcttgcc ctctcaccat gtgatgccct ctgccatatt atgacacagc 300
 aagaaggccc taaccaaag ccaggcacca tgttcttaga cttctcagcc tccggaacca 360
 tgagctaagt aaatttcttt agaaattacc cagtctgtgg tattctgttt agtaacagaa 420
 aactgncttt actaaagaca gtagtaaate tttgtgacct tggggtaagg caatgattcn 480
 tagatatggc tgcccaagtg gccaaaaaat ngataactgg acttcatcaa aattaaggtt 540
 tacattcaaa agatnccntt annaaagtta aagaccaccc ccgaatggga gattt 595

<210> 8155

<211> 590

<212> DNA

<213> Homo sapiens

<400> 8155

gaataaataa gcatcaatth tattgaatca tgaataatth aagactggta caatcatcag 60
 ctttattctc tatgacatgg ggcattgatgt ccagcagatc attggcaaat ccaaaaacct 120
 catgacaaat gaaaattaaa taggtaggaa gagagagaga ggaggggagg aggaagggga 180
 gggaggatgg aaacataaccg tacacaaaat actcaattcc tagttttctc tttaaaaatg 240
 gctagaaaaa attcatcaaa atgcagcact ttaatcaatt attacaatt tctatgttac 300
 aatgaaaaaa tgtacatctt atagaacata tttcataaaa ctgctccact ggaaacaact 360
 agatcaaaac agcaaacctt ccatttaata tccacaaagt tggattatth ttcctttttg 420
 aagtaagatt cgccccaatc aaatttgaat nccgagaatt ttggaagtta agcctcaacc 480
 accaagtaaa agtccccaag atccaccaag atctaggcag gcttggtcct gtccaatcca 540
 cccancccta atgaacttaa agggtttcca ttcaatattg gccggncatn 590

<210> 8156

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8156

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aggtattcat tctgtttatt ggattgaaag aaagggaata caaacgactg gttaagtgct 60
gcgcactgac atggaaaaag tgtcttttaa aaaaaatccc agtaaagcaa atcaaagtta 120
atgtagtttc agttgaacaa aaatttaaag acgtttaata cattacacat ttataaaata 180
aaagtcaaca aagggtgttt tgtaaataat tagtaaacia gtgaaaataa atatcagaga 240
cctgaagttt ttatacttta atgaataaag caaagaaatt taaactaagt aaatataatc 300
tgagaggcag ttaaaaaaac aaaaatcaaa acccaccaaa attgaagaac acaatctttt 360
gaaacattta atcagtcctat agcaaatagt tattacatac caaaaagctc taagtgttaa 420
ctagttcccc acaatgnent gtaaactctt acaatttaga aatcttgaga tccacactta 480
aggtcntttc ttgactctac acttgggttg taagtccttc ctgcttttgg ggactattcc 540
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<210> 8157

<211> 525

<212> DNA

<213> Homo sapiens

<400> 8157

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gttagtgttt cttttattat aaagcactga aataagttaa ataaacaggt gggaggctgg 60
gcagtccccc agccggtttg tccacagccc ctgggggcag tggagggtgaa tacagggccc 120
ttctcactga gctcatgaag tgcctcagtc aaggcaaggt cccctgggtcc atatgggccc 180
ccccgccc at ggggttgggc tggtccttat agtgcctacg ttagtctgtg tggagcccct 240
ggccagcggg ggagaaaaag gtggcttctg gtccgtctgt ataaaacatg gggaagaagg 300
acctagtcca ggatgagtct gtgtggacag cccggctgcc agcagtcctc agggctgggtg 360
ggccccgaga gctcaaaaca gaggggtgggc tatgaggttg ggccccagccc tcagaggcan 420
agagaccagg cctttctgcc ccaccgtggc catgcacctt ttgtggcgct tgtaattgtt 480
ccaatggccn tggatataggc ncagtngcac aacngnaagg ctint 525

```


<210> 8158

<211> 544

<212> DNA

<213> Homo sapiens

<400> 8158

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aaaaaaaaa aaaatttatt ggtgacgttg aagaaaaggg ctgaggggtg gatggctgga   60
gctgggggcta cgtaggcggc ccctcctggt cttcctgctg catccgtgcg atcagctgtt  120
gccgctcggc cgcctggcgc atgcgcatca tgacgaggct ctcgtagtcc ctctctgaca  180
gcactgagcc ctttgacagt cctgagtggc tgcggcccac ggcatcctgg ggctgtccct  240
ccaaccagga aatcttcaga gggttatcca ccaggccaac ttcatcttgg acagccagct  300
ccgctgcctt gacggttgca aactccacca cagcagtgcc tggtctctta ctggaaagca  360
ccaggttgag aacctcacca tacttctgca aaagcccgtg ggangacgtc tttggagtaa  420
ccaccttttg actcatctcc ttcttgcaact tncatttagc cttantttgg ggggtccttg  480
gccttcaata ntttctggct ttctntnaac tttnggcacg ctctggggta tntgttccgg  540
ataa                                                                    544

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<210> 8159

<211> 592

<212> DNA

<213> Homo sapiens

<400> 8159

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atatagtcac tgtttatctt atggaaactg aagttctgct gagggctgag cagcactggc   60
attgaaaaat ataataatca taaagtctgt gtctggacac cgcctttggg aactagaagg  120
ggagttggta ttgtaccagc tggactaagc tccagttcta gacctcctgg ctcatccaac  180
atgcctccct acctaaataa aagtgaaca ctcagtgcac gtcccagccc cattctccca  240
agcatgggag tgggcgtagg agtggaggag ggggaaggaa aaaggaatta cttcacttac  300
acctatgatg ccctttgccc aagccagaag aaagcaaagg ggaaaagggc tgcagggtca  360

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ttatttattt tcacttgaac atggaaagaa agtgtcacac tcccccttcc ctttataggg 420
 ggaagtgtat tttaatcagc aaccctcttc ttccatncac cctgngnatg tgtgacccat 480
 ttaccacccc agttgggang catgactagg ctgcccanc tctctggtcc tcctttgaan 540
 anggtttgcc aaatgggaaa aaggaaggac ccnnttaggc aaaggttcaa ct 592

<210> 8160

<211> 438

<212> DNA

<213> Homo sapiens

<400> 8160

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 cacagataaa agagtcacta tggctcagga cacaaggcag ggaggtgcca ggcctgtgcc 120
 cctgctgggg gagaaggagg ctgaggacaa agtgggagaa gtgctgggaa gggctgagcg 180
 gtaggggcca caaaagticc ggtgggcaac actgtcggca ggtcatgggt gggactcatg 240
 gggacctcgc tgctaactct tgttgtgggg ggggtgtcctt agtctgcca cctggagggc 300
 cactccttgg ttcctggagg ggaccacca agggacacag gacaggaagc ccaggatggt 360
 tagtgcaact cgggatgaag ccanggagaa cgggtgtctt gcaatggccg gataggtcca 420
 gacgctgagg ccnnnnnn 438

<210> 8161

<211> 575

<212> DNA

<213> Homo sapiens

<400> 8161

gcatttcaaa tatttcaata gttttatttc gcaaagagaa gcctaagaat ttttttaaaa 60
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 tcatctcaaa tgtatatatt tgaattatgt gccaatitaa taattagtac aaaaatgaca 180

gctgaaatat tttaaaaatg taaaaaccag tccaggcaac ataactatac catcctgctg 240
 taaaagtact tatatcgaat tccgcacaaa atatTTTTgc aatatgctaa atttagttct 300
 tcaagtcact cttcactgcc ggctggcttt tccattttct gntgnctcca tcccattttc 360
 ctctttaaga tgttgatata gttcagctct gttattaaca gagttcaaac cgtncagcaa 420
 attcccggag gtttctggaa ttggcagtan tggatctatt actccccaag ggtaataacg 480
 acctggncct tttgattttt ccctgnggag ttcatccttn aacaagggtt tttgttngaa 540
 ggtcttggga acagcgaact ttataatcta gctcc 575

<210> 8162

<211> 581

<212> DNA

<213> Homo sapiens

<400> 8162

ccaagacaga gtcttgctgt caccaggct ggagtgcagt ggcatgatct tggctctctg 60
 caatctccgc ctctggatt caagcaattc tctgcctca gcctcccaag tagctgggat 120
 tacaggcacg caccaccaca tccagctaatt tttgtatttt tagtagagat ggggtttctc 180
 catgttggtc aggttgggtc caaactcctg actttgtgat ctgcccgcct cggcctccca 240
 aagtgctgga attacagatg tgagccactg ggcccagccc agaacttggg tttatccacc 300
 tctggtgaaa catgagctca cttggtgctc tctggcctct ttattcccat ctcttaggc 360
 tgaccctgac aagcgccagg gccaggcttg gaccaagcag tcaactgagt cagcctgccc 420
 tgggaaccag gcaggggaag gagcttacgg acggctangc tcaggaaaag ttagaaagaa 480
 cccgataaag gcaaaattcc tggccgaaag gcacttaacn taaggatgga acctcttggt 540
 gccttgaagg gccgtaancc tgtttgnctg ggggatgact n 581

<210> 8163

<211> 591

<212> DNA

<213> Homo sapiens

<400> 8163

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aaataaatta aatttaattc aatagaaaca cacacattgt tactagcata agtaacaaaa 60
acttccaatg ttttaacaaag taagtaaaat gtgataagca tgtacagtct aagaattttc 120
tacatgcatt cttgttaaac tactactttt gctttgttca gactttataa tacctttctc 180
caaacagctt atccttgatt tttttaaaaa ttcaaatacc cacaagtttc agtgaataga 240
ttgtgaaata aagactatit ctaaaaatac cticcatgtt acattctgac agagtaaaca 300
ataagaattg agaatcaaga ggctatgtgg tttcaaaaac ctaaaaagaa acactgcagg 360
acagatcttt tatgagtatg atcttttgnt ttgntttctt acagttttgg gtaaagcaaa 420
atcaaaaggg cacactaaga gtaaaacaca gaaataatcc tttaaaacaa ttttaagtta 480
agcngggact caactttacc atgggctctg gtaaacact ttggtcattc taccncaaat 540
cttcaaaatg gaaatagggt taataggatt ttaaaaaggt nggctgatgg n 591

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<210> 8164

<211> 502

<212> DNA

<213> Homo sapiens

<400> 8164

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agcaaataaa cattttatit ccacagcacg ctttcctct tcccaaagaa catgagttca 60
cctcagccat caaagcagag ggcgaaagct gcaagtgaca aggcaagagg ctccatagaaa 120
aatagattat acccaaggct ctccctctgg ggacccaaac ccgtccccag gctccccctc 180
agagcttgcc aaatggagtg aaaggcatgg aaaggggctg ggagaaaagc cagctccact 240
gaacaaaggg gagaggagcc tggcagtgag cagacctggg aggggtgtgg ggtgggatga 300
gctttgctcc ttggttgagt gctggaaaag ggaaggggga agaaataatt tatgttgatg 360
taattaatgt aatgatgatg taatggtgcg tggtttcaat catggcgacc attccagatc 420
tctctcaagt gaactaaatt ctggcccggg ctgttgagca gacatagtag gtgaaanaaa 480
gcttaacttg gaagcccnga ag 502

```

<210> 8165

<211> 503

<212> DNA

<213> Homo sapiens

<400> 8165

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agctagtatc ttttattgtc agaacttctg tgagccaaca aacagttttg catggttgta 60
cacaaaggga caaggcaaat ttcttttttc gtgtgggtag acttagttgg cccaagtcct 120
taaaactttt ccatataaaa ataaaaagtc caagaccaga ttatttttct tctggtcata 180
aatgctgatt tatttacagg tgccttggtc agaccaccat tataaacttg ggataaaata 240
tgtgtgtatt aaagcctcag catttaatgt cagggtcctt tgaagattca ctcaagtgtt 300
aagacgtttc tggaatgcag cgtctctccc ccatagtcaa catggttatt atatctgtaa 360
tctatccaga atgatagaag ctaaccttcc aagtaacact ttgtttttaa cttaaattctt 420
ttagacatga aagactccaa aatgacttca ttcttgggtc aaaaccagcc tgggagccag 480
ctgntgaana atggnttata aat 503

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<210> 8166

<211> 500

<212> DNA

<213> Homo sapiens

<400> 8166

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gcatgtaact tttttattga gggcacaaca aggcatgtga acttgcctgg acttgaggca 60
gtcagtttag taagctgaac gttaatacag ttaaggatta agtgcaaaca atatacattc 120
acagcttgac tagcgaggct acatcacaat ttataaagtg ccagattagt gctaattgtc 180
attcagcttg atttttcacc tcaggaagga aaacaaaaaa gtaaggacct cctccctcta 240
ggaacaaaaa cattttccta aaccaatcag tcatgagggc aaagactact tttccttcaa 300
tcccactaat tagaacacca tccttttatt gncaatactg tactgacttt caatcttgat 360
aaagaagata gcctgaaaac gtagaatatt tccagctact tccataaatt gctcccctgt 420

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gcagacgtaa ccatatctgg tctccctgga aganctgaag aattgcatga atgctagcag 480
tttcatggnc tngagcccca 500

<210> 8167

<211> 500

<212> DNA

<213> Homo sapiens

<400> 8167

gagagttgaa acaaagaaac tttaatgttc tggctgacta cactatgttg ataggctcac 60
aattactgca tctatactga aaatacatag actcttttcc ttatcatgat tccctaaaca 120
atacaataga acaactatit gcatagcttt tataatgcat gaggtatit aagtaatcta 180
gacataattg agactataca agaggatgtg ggtaagttac atacaaatat gtcattttat 240
aaaagggact tgacatggct cacagagtgc tggaaccaat acccagcagg tatcaagcga 300
tgactgtact ggaaagaaac tgaaactact taaggcttta ccaagtgctt acattcacag 360
ggtctatctc caatgtgttt cgtacaagta tctgaaatga aataaaatta ataatgctt 420
tcccacattc catacattta gagagaatgc aagtgagtct ttttatgtct atgcaaggaa 480
ctgagagaac caatgctttt 500

<210> 8168

<211> 486

<212> DNA

<213> Homo sapiens

<400> 8168

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aactccatga tgatgtcncc tgtgtcgggg tgaaactcca ctgcatagct gacagtcctg 120
gggccacca gcagtgtctt gggatctggg gcagggtga anaagtagac ggcctgcttg 180
cagtgggggt tccagcagca gccccctcg gggctctgcag gctccaggag gccagtgtg 240

agcgtgcact ccgggggtcag gtggtactcc atccatagca ccgctgcgtg gctntgcccc 300
 ggccttctga gctccacggt gccctcggca cacaggggct gcaggggcac cggctgctgg 360
 aagtcaaagg tcaggatctg ccagggtctg gaaaggctgc ggcatgggta ctcccacanc 420
 ggggtggggct taacttcctt gctntcctga aatncaaggc acccttaaac atgtcgccat 480
 ganggg 486

<210> 8169

<211> 502

<212> DNA

<213> Homo sapiens

<400> 8169

aatggtggaa atattccaaa attccatatt ttgggattta tacacaaaag ataaacaaat 60
 tagaggccaa gaggtgccg gaagggaana acggggcctg ggaaggccgt tgtgaggaat 120
 gagctgggccc taaagaggcc actggcaggc aggagctgga cctgctgaag tggccgaaag 180
 gcaggagctt tggactgggg aggccacagt gaggcgagag ctagctgggc gtggagagtc 240
 cgctgtgagg ccgaggccga ggccgggccc gtgcaggcct ttgagaggca ggagctgagt 300
 ccaaagacgt tgttgggagg ccaaagtcgg gcctggagac gcagccggga ggaagagctg 360
 ggctgggccc gaaagaggcc actgggaggc aggaggagct gggcctggan aggctgactc 420
 gaggaacttt tgcacccgga aaagcccga aaaggccgga acttggcctt ggggaaccca 480
 cttgaaaacn acttgggcct tn 502

<210> 8170

<211> 496

<212> DNA

<213> Homo sapiens

<400> 8170

ccattgcacc ttatttgggt tattctgttc actgttcaga attttcatac agtctttcta 60

gaatcacaca gaggctactg agtagctcct tccccctgac actgctttat ttctaaccag 120
 cctcctctca tcccttatcc ttagtgatg atattctgct agtgtccagg gaggccccag 180
 ggttgTTTTT acaggggagg gagaagggg tgcggtggta tgcctgcagc tttctctcct 240
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 ttgggtttgg atcttgactc cactagaagc catgtgatct caggacatt tcttgacctc 360
 tctgagccct ttttcttct tctacaatgt ggagaaaaga ctccctctct cacaggggtt 420
 actacaagaa ttcaatgact ccaagtatcc aaagcatctg gcacagtgcc tgggcacaca 480
 gtacgcccta catgcc 496

<210> 8171

<211> 494

<212> DNA

<213> Homo sapiens

<400> 8171

aaaactcaag ttttattgca atacatcttg cattacattc taataataaa cggttgaagt 60
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 taggattggg aaaaataaac actaatagaa agtactccaa aatgttaaca acgtttctat 180
 gggcattggg attgggggtg gtttatactt tctcattttc tgtattacca acacttacia 240
 ttcacaatca ggagaaaaac ctattatatg atacttaaaa cattaaatct ctgattgtca 300
 cctataggaa aaggcaactc actatccatt tgaaagatcc ctttagactt ctgatcgacc 360
 tcactcgata actgcacaac ctctggacac aaagaggccg aattgtcccc ccaatttcac 420
 ctcccctatt acccacaaca gcagcgatat gggtttgggc tcttngtcc ccacccaaat 480
 ctncnatagt aatc 494

<210> 8172

<211> 495

<212> DNA

<213> Homo sapiens

<400> 8172

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aacttttagtg gtgggtatatt cacaacagtt acacctggca aaggcttata aaccaacttc 60
ccagaagagt tatttaaaaa aaaaagagag agagagaagg agaaagaact caagcactgg 120
ccatattctc tgttaaacac acacacacac acacacacac acacacacaa acacacacac 180
acacccccaaa caacaaaaaat cagaaacaga agaaaattaa aaaaccaccc tgccactaaa 240
ttgagtaatt tccagaatgc agtatcccta tgttctacag caggtcagga agatggctat 300
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gccggtctag tttgtcctca gcctggggaa tctcttcaat caccgcagc tcctcaggat 420
ttagaaagtg gagcatgtca tcaaagatag gctgcaagtc acaggggtca agcgtacctg 480
ncgnacactg ggttc 495

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<210> 8173

<211> 496

<212> DNA

<213> Homo sapiens

<400> 8173

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gacggtgtca aactctgctt tattggaata gagaatacag gcagcaggaa tcacgcttgg 60
tgctggcagc tccaggctcc ctgccccac gggctctccc acttgtcttg atcaggggag 120
acctccactt tgaagaacaa tatgggggtgg gagcttccaa tgtgcattct gctaccagcc 180
tcaggattag cagcaagatg ccaacagcaa cagcaacagc aacagcaaca gcaacaaagg 240
actggactcg acacttcagg aaaggacgtg tagaagagaa agtcagaccc acagtgtcac 300
gtgttaacaa cgggtcccaca acagcagaca cgacactggg gtgcatggct gtaccacctg 360
tgaggaggctg acagcacacc gacagccctg aggggcccgg cattctcact cccaacatga 420
gaaagaatta acaccacaca cacacatgtt cacattctct gcgaggacag tcaaattaag 480
gnccccaagg gagggga 496

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<210> 8174

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8174

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actaatcaaa tctattgctt ttattgtttt taagtaagtg gtggtatatg tcattctttt   60
aatgttttct ttgggaaga tcttatagaa aatggcaccg tgaaactttc agctctatgt  120
cccaaaaatt atctttcaac aatctgatga agtttcttaa agaaactctt aaaaatgaag  180
ataatatacc tggcctaaat caaaacaatc tgaaaaatgg atgtgtccca gtggaaagac  240
tcaagtcttt tcaagtttat cagaaatgcc actatacacc actgtactat aagtcgagga  300
ggatggatat ccaaaggatg catttggtga cggttcctga tggcttcagg tatatcctat  360
aatcactggt tactatgcat catttcttgt agataaatgg tattcatgtg ataagctgcc  420
atccaacttg gatgtctctg agcattccaa taatatgaat gagaaacggc agcataatat  480
tcttgccatg cctgtanta agctctccag nctcccatta atcccgatag gnttaanaaa  540
acctcagacc gntttncctn tgccggcatt ccca                                574

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<210> 8175

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8175

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gaagatggct gacctcaaat cttatatacct aaatatatac gatatcccc aagttaatat   60
acagaaaaac atgattctaa aataaataca caggcttttt aaaaaaaact taattagggc  120
ctgtctagtg atgccctggg ccggtgctgc actgcttttag ggaagcccct ggctggatct  180
atgtttccta tagcacctct aggcactggg aaggagcctg gaggagagct ctggcttcta  240
atgaccacag tggccccagc tgaaaaattt ttttagaggc tccccaaaga agtctcatcc  300
agaccttaag ggaaataaaa tgaatgcatg aaataaataa ataatttaac cacaactaaa  360
tttcatgttc ttggtgtaa ttcaaggatg tctagaaaca aaataatctg attgcattat  420

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acagtccatg atgattcaat tgcccaaata gccaggaatt gaagatttat ctgctccttt 480
aacaataagg actgaccctt actggaatca tttttttaaa ttcaatatta ttnaaatctt 540
gntgccaatc aaatccgggg tgataaggca ttaanttaag ggccncctt 589

<210> 8176

<211> 561

<212> DNA

<213> Homo sapiens

<400> 8176

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atggtacacc tatgaagcaa gagttaata taaaccagc ctaatcctgt acacttgtga 120
ttaattgtga caatcttaag ttgctcactt ctttcccatt taccaattca gagaaagccc 180
gtttcctggt ttctctcac cactttgcct tggcatcaca ccaaccctgc ctggggcttc 240
agctgcagat cctccccagc ccctcctccc agctgggctg actccagtcc cagccccagt 300
ctccaccaac tgagcagcgt acgcagggtt gtgcctggct tccagcatct accaccctt 360
cagagcaact tccaacatgg gacaggagag gaagctcgca ttgcttggtc tgaacagatt 420
taaggagggt ttatcacaag gacctgaaa cttcctaagc atgctttctn cttgccagct 480
gaagaagggc aatggtggga accgggcaag gggggttgca agggccgnaa gggctttttna 540
attangggnt tnaattcnca a 561

<210> 8177

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8177

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tcaaattata tcatatatat gattcaattt aaaaatcctt agccctctta tatcatatta 120

tctagattat aatagtaaaa aatcaagtta cattcatatg aaactttcat aaaaagaaat 180
 caaatccagt tttatgaaat tttatagtac aattactttc tagtgggtct tttcttaggt 240
 cacagtatTT ataattccat ttacatcttt ataattttta aaattagaaa acaaaaggat 300
 gtcaatagaa atctaaattt tcacttgcaa aactcccttc agtttccagg ccagtaacac 360
 atgggtgatgt cgacttgtcc tccagacatg gacggctacc aaagaccccc agttcacgga 420
 gcatgcaggc ctctactcat taggaacgct ttttgggttt ggctcacgtt tcaagaaatt 480
 gtggagcatg tccatgccgt caaagatccc cangttcaag gatangtten ggatttcant 540
 tccaaccttn ggatcattaa nccttctttt ttaaactnact gggaacc 588

<210> 8178

<211> 528

<212> DNA

<213> Homo sapiens

<400> 8178

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 gagtggggac cctgcatgct gccccctccc cgccccggg gtcttctggc aggactgggg 120
 aaggagacct ctcagggggg ggcggtccac gccagtagc acctgggagc tgtggggggcc 180
 gaggcagtcc gaagggtgtg ggtagctctg agctcatgta caggccggt accccgagcg 240
 ccttgcggcg ggagccagg cccatcagta atagtgcag cgccccagg tgcccggtgc 300
 cgtggggctg ggccccagcg tgcctgtgcc cagcaggctc ggctgcccgg tgcgccagat 360
 ctcccgcagg atccgttcgc gctcctccag ccgctgcgcc cgctccagct cctccgccga 420
 cgtgaagacc ttgacgttga ggggcccgtc cggcttttgc ggacagttcg ggcccggnaa 480
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<210> 8179

<211> 499

<212> DNA

<213> Homo sapiens

<400> 8179

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ctttgaattt ccatgtgcat ttatttggtt attgactctt ttcccaggag gtcagctcca 60
ccaggatagg tctttgttgg ttctttcacc gctgtacctg tgtacaggac agagcctggc 120
acacaccagg tgccagtga tatttgctga aggaagtcac aaatagggat cagccatcat 180
tactttatca tcatgatcaa caggaaagac cactgtcctc acccaatccc ctccaaaagg 240
ctttggagca gatgtcaaca ttaattcact gtctcaggtg acagctctca tctgaggcc 300
agggttgggg ggagctggga atggggcnag agtggggcct cacgtcccag gctccttgat 360
acccccacc ccaccagcc aggaaacacc acgaggcagc caaggttaag tagactcttg 420
ctgctttgtt ataaatatat tatgtacatc caaaacatga cattaaaata ttactccgtg 480
tacagaaaag atnnnnnnn 499

```

<210> 8180

<211> 595

<212> DNA

<213> Homo sapiens

<400> 8180

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gctttgtcat ttgctattta atgttcaaac attgaaagta attgatttct tccgagacac 60
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actgtgtggc tgatgcgtgg gatctccctt tgcttccttc ccgtgttgga gccattttc 180
tagatccttc acttctctgt tcttggtttg ctctcgtcatt tgggtggaata cattcccagc 240
agctgcctga gtggggaagc aggggaaata tccctacaca ggcagttttt cgaggtatga 300
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tgtgtttaaa ataattttcc atcagctttt ggaagacact acttcactgt attgtggtat 420
tcaattgttg ctactgaaaa tctcaatacc atctgattcc tatttcttg cattggaacc 480
taattttct cctcctggaa cattttnaaa atggctcttt ttcccantg ttttgaaaaa 540
aaaacttttt atttngaaat ccttagtttt gnaanattcn tatattcncc ctaga 595

```

<210> 8181

<211> 561

<212> DNA

<213> Homo sapiens

<400> 8181

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caatagtcca gaactgttct tttttctatt ttagggctga ggggtttcta tttagtctac   60
atgtgtcagt ctgagcaacg tgagaagtcc cctcctgaag atttcctttt gcacggctgg   120
ctcagcactg cgggtagctc ggcatataca aaagcgaaac ggtggtcaga ccttcacagg   180
gtccccacct cacgacgaca ctggtctacg tactccagac aggcctcagt tcttcttgct   240
gtccttctga ggctcacttt ttgtggtccc taggttggtc cacacctctg tgtacattaa   300
ggccecaatg aagacaaaca aggtgcccag ccagtgccac aggggtgaagg ggttctggaa   360
gtacaagatg gaaaagatga ggctcacaaa ttgcgtagg gtcacgacga gcgtgacggg   420
gagggaggcg cattctgtgg tgaggataaa cacaccccg atgcacactt ctgagtgatg   480
atgtcatgan gaggtngaac cccttaatgg caagggcact tccatgaccg gaatttntnt   540
acctnacctt ttgaannaaa c                                         561

```

<210> 8182

<211> 515

<212> DNA

<213> Homo sapiens

<400> 8182

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actgtgtaaa gctgcctttg caagcacttc acatgattca ctgaacagag cagacagaaa   60
cccctgccct tcttgggggc ttccatccta gacaagtgcc agcggcccca gttgatgcca   120
cgggcaggca atgtgcatag ccatggcacg tgccatccct gtggattcgg atgcctcctc   180
ccctgctggg gtgaggcagc caaccagggg ccaactgaaa aaatgctgga ctctcggtca   240
aggacagggc tgggagagtg ccagtctcca caaactgtgg atccactaga gggttcaggc   300
ctggggcatc ctctgcaaga ggatcccacg agagtccatt cccaccaca ggcctccgct   360

```

gctcactgct gtgccttgat cggcctggac gagcccgccc acacctccat catacccagt 420
gtgaanaggg gctggggacc caccatttct gagaacagca tncctgggaa aaccactgt 480
gaatgcnaa nangnacaat ccttaggccn agtga 515

<210> 8183

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8183

cctcattctg gtttttaatg gtcaaggtga caacagtga cagtttttcc agaccatata 60
gtaggttcca taatctccac ctgctggaga aaacaccgtg acagatgcca ttgccccagc 120
aggccactgc cgggtgtggga actttgggat caaaagcacc aagccaagtc ccttgctcag 180
gatgggtcctt gggtgaaacc acaagccctt ntgcagttct aggtggatgt agtgttggtt 240
cttggtcat tgcaggggtg aagcaggaaa gagaaagaga ctggtgaggc ctgcttgga 300
agaggattga ggcacattac gattccaaac caggagatcc tgagtcagca ctgattctgt 360
ctctggtttg ttttaatacgg gaaagggttc catccaagag cccaataggc ctcctctccc 420
aaacctgcat agcaatcaaa cttatagggg tgggtggangg tctttaccag gctaggacta 480
ctgcctatgt ttctgcaagt cacaagttaa ccagggtcaaa agaacaatgt gaaacanaac 540
ctggttaagc aaagccnaat tgtgaccttt ctttct 577

<210> 8184

<211> 550

<212> DNA

<213> Homo sapiens

<400> 8184

ccagttttan catgcaactt tattaacaac atgtaaataa aatctcaaaa gaatncncat 60
ntcaatntaa agcncagaag tntagcttac tcaggatgaa tagattcatt atcaggtcac 120

gttgcaaaaa tncataaaaat atctcaatctt atatnctata tagcncaata aaaatcagcn 180
catgttcagg atctcaanat taatnggtat ccataaaatn gcctccctca atcaacatgg 240
aaaacataag tattgaatctt ataattncaa tatgcattgg tttcatattg caactccaaa 300
aaactgtttg aggcttttatg anaacagagg ggtnttcana gttttagtat taatcgtatg 360
actttatctc tcacttcggg atcactgngc tctgctaagt cttggagttt ctgaccaaac 420
tgttttgctt cctggaatat tgaaataagc tcaaatttag ngaacttttc cttggnaaat 480
agctttgcct ttgttttgaa ctgaaaatta tattctcaaa ttttcaaat ttaaaaaatt 540
ggncctttgcc 550

<210> 8185

<211> 579

<212> DNA

<213> Homo sapiens

<400> 8185

ggagtcttcc catataaggc acaaaagggt ctttttgttt tgctttgttt taaagcttta 60
ataaattctt ggaagattct ggattgcttg aaattatttt tagattatgc taaacatgga 120
gctgcattta cacaaaagtt cttaaaaatt gtcccaaaag ctaatttttc caagtggaat 180
aactttagaa ttgaacattt ataagattcg ctttatgttt taaggagctc taaaatctac 240
atcataatct aagaagtctt aattttgaac tttaattcac aacgatcttc tacacgtgac 300
attatctcac gtgtatcctg taggctctct gttacggtta gctcactaga aagtgcacta 360
agtgcactta gtgttttaag cagcattact gtgaatttcc tttagaaact cacttttatt 420
tgtctccagt ctactttttc atctatttgn ttttggtttt ttgnttttta attttgagac 480
agagictcat tctgtcgcgc aagctggaat gcaatggaat gatctggctc attggnacct 540
ctatctccng ggtaacaat ctttgcctan nccttgcat 579

<210> 8186

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8186

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aaatctttat ttaaaagtcc atgctaataa tgtgtttaca tttttacagt tacattatga 60
tagaaactgt tggatttttt aaatatctaa aacaatggcc cactgaagaa aggaacaatt 120
aactctttaa ttaattcctt aggataaata cccagaaatt taacagctag ggcagacttc 180
taatacaata ccgaaagtcc ttccaaaaac caagtgggtg ccaacttatg tcccttagca 240
ttataacatt cttgagccaa tagtgtaaaa atacgctgac aattttatag gcaaacatta 300
ctcaaggtat cttactttcc acttattact aaagtaatta acccctaaat agatgctcct 360
caacagtggg actacatcct ggtaaacctc tcataagttg aaactatcaa gttgaaatgc 420
atttagtacc cggataaacc tatcataaag ttgaaaattt gtaaattgaa cccagtgtaa 480
atcagaggcc atcttacttc atactcatga agcactatag nggatattt ttcacttacg 540
agaaaacctc agcttggtgn aaaactggcc taat 574

```

<210> 8187

<211> 575

<212> DNA

<213> Homo sapiens

<400> 8187

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gttttttttag cgggtgaaca aattttaatt caaaatagac actctgaaaa caataggtaa 60
aaaaaaaaaa atgttcaaca agctctcttt gaatttacia cagagtacac caacaatcat 120
aaaccagttt cacaactgcc tcaaatatga acattatagc aattacatgc aagtattata 180
ttttttaaaa tccacatagt aacattatgt ttctcagagg ctgtcacatc ctccaaatat 240
ttctacctaa agatagagtg aaggggttcc tctgctgtgt accaccagaa atatgactta 300
ccatctaaac tggctgggtc ccatgactgg ttctgggtgct ttaagtttta atatcgtgtg 360
gggaaaaaaaa cgaggtttta catccacagg acagtacga caatggagat tctttaacaa 420
tatgccatcc catcgacccg gacacagctt ccagcctaaa ccagctagag aaaagcccgt 480
ttctccacta aacatgacct tcagaaaatg tggtaaaaga cttactgtcc aacctggag 540

```

actgagatct tantctggaa ctttgccatg tcccc

575

<210> 8188

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8188

gcttagaaaa tgctgtgatt ttattcatag tatatacacc acaaaacaga cactttccat 60
 tattttgatt acttcaaaat ttaaaatctg cttgtttttc aattgatttt tticatgaca 120
 gatgctgagt tctgacccat tttttcccc tgacagtatc aataggctgc ccgactacat 180
 gatacaattg ttttttagcat ttaaatttaa gactatggct cagtgtttga aaaataaata 240
 agttaacaaa agagaaacat tattaggagg aaaatgaaaa catattcacc acatgataaa 300
 aaaaatcact ccttaaaaaat caataagtgg tgtgagcatt atttcactta acctacttgg 360
 aagcactata ataccaatat acaataaaaa cagaacccat aggtagcctg gaatgatgca 420
 gtggccatca ctaattaggg gctagttgac aacataaata caaataaatg aaattcaaatt 480
 taaaaaaaaac ttgnttttag ctttaattggt gggcanaatg tatggcgggg gctggntgct 540
 ggcaanccgt ttaactttgc tcgcttgntt gntcgaa 577

<210> 8189

<211> 606

<212> DNA

<213> Homo sapiens

<400> 8189

cttttttttt ttacacttg ggttttaggt atttatattac aaagttctta ctaatacaat 60
 tgcttttaaa atgtagnnna agagtcattt actactctca gaagtggcac atacatggca 120
 tagaaaacaa tctatagtca gttaactatt aaaacagaaa cttgaaattt aagtgacaaa 180
 catttgtagc actccctaaa gaaataggaa ataaaaatgc atttatccat atgaacttga 240

ttattctgaa ttactgacta taaaaaggct attgtgaaag atatcacact ttgaaacagc 300
 aaatgaattt tcaattttac atttaattat aagaccacaa taaaaagttg aacatgcgca 360
 tatctatgca tticacagaa gattagtaaa actgatggca acttcagaat tatttcatga 420
 agggtagaaa cagtctttac cacaattttc ccatggncctt atccttcaaa ataaaaattc 480
 nacacactat caacttaaata caagatttgc tagtggatna aattccatta atttaccgnc 540
 tntnttgaa cangetccaa caatntgggtt ttgcaaaaat ccatggttct naaacttcgg 600
 gcctat 606

<210> 8190

<211> 566

<212> DNA

<213> Homo sapiens

<400> 8190

gattcacaac acaattcagc tatatattta attttaaaga cttcatgaaa ttgtgggagg 60
 ggtaaggggg aaaaaagaaa gagaaaggaa ggaccccaac aacagtaaga ctccctacca 120
 tctacatctc atctgtgttt ctcttattat aacccatgaa atatctctac ctgcagtgtc 180
 tattacaaat acaaatacca tcctcactca ttttcaacag ctacctcact aattcttaca 240
 cacttgacaa ctttagaact ttgtccaatt attatttggc caatgcttga aaatgattta 300
 aaggcataac cccaagtctt agaacagctt agagcaggag tataaatatt cagattccaa 360
 agacaaggac tactaccac atcaacctgc ctgtgacacc tcacaactaa gaaaccagtt 420
 tttagtagat caaagatgaa aaggtgaaac gtacagctca caaatcaaat atctgggcac 480
 tagaaggaat aggtgtgggt ggaaaaataa ccccttngna tttctcagc atatttttna 540
 atggncgtac cacanttntt cncctc 566

<210> 8191

<211> 597

<212> DNA

<213> Homo sapiens

<400> 8191

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cacactgtca caatttattg aaattttata aaaactcagg ccaagtggaa gaataaggta   60
caactcaaga gtacaaagac aactccgttt ccgttcagta cttttctcct cagcactggg   120
ggtaagaaag ccccttgctc tctagtagcc aggcagcatg gacttacagt cttaaaatga   180
ggctttatgt atttcaggct ggaggcagg tgccttttct cctgaggaat ctcaggcagg   240
gtaaaagtta cttaccactc agtacctctg tgccagaaga aaagctcaat ttattcaatc   300
cttagaaaag ttactatcgt cccctgggtc gacactaagg tgtcttgata aggtccagag   360
acaaccacat agtccttatt ctaattcgta gtgaaaaggc tgcaggcata tgggtgctcct   420
acgatggggc tgaccctttc ctaagcacat ctcatttcca catcctttgc cttctctttc   480
cccaacattt ncagccagca ttgaaccaa tttctngna attgagaagg ggaaacngtt   540
ttntgnaccc cgacttcctt taaaatggac cggggnccaa cccaattaat tagagaa     597

```

<210> 8192

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8192

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aaaagtaatt acaaattaag aatttattta taagttttca tctttttaga aataaaaagg   60
cttaaaaaac aaaatgggtg caaaaatggg tagttttgtt atatccta atgcttaggtg   120
tgctctgtaa attccaaata agtaaaataa tataaaaata cattttcata tctttataga   180
acaaaaacaa aacattaaat gcttttggat tttctttact cctcccacag atgagttcac   240
aaatacaaaa actggtgtac atttatactc aagtacaaat ctccaacagc caagtaatta   300
tagtttcttc tgttatgtgc aaagtagatt atttcatatt tacttggtat ggaaagcaga   360
gtacaggctc aatggacaat aatcattaaa cacagattat gttaagaaa atgctgttgt   420
aaaaatgtca atagtacata caattttggg aattatgcac ttcttttaaa gtaaatacag   480
cttttagata taaatctttc aaanggttc tttgaaaanc tgtgangnga ctatttcaga   540
attgatgaac agtaatttgg cngnaacttn t                                   571

```

<210> 8193

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8193

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aaggntttaa acgtttctct ttgaaaagat ggtatcttac agtacatata aaaatactct   60
gaaaatacat acgacttcat ttacaaaaca ctgaatcaac atattacaag aattacatgg  120
ttatggattt taataaactg agcatgcatt catgaaactt aaaaaatatt aagaaatgca  180
ttgaaaaaag cagcgtaaaa aaagacaact catatagtta aataaaaatt acaaagggtcc  240
tgagccaatt aatggttggt aacaatgtca ttcaaaatgc ctttaggttt caataaaatc  300
cactgcttat ttctgcatgc ctagtccgtg aagaaactat ttgaagttgt ggggtaaata  360
atgatcagga attatcatgc caagttaatt ttacacctca aaaatacaag tgtgccatac  420
ttaaagggtta tcttattgnt gatgctggaa tgagttgctc ctcagtaaaa aatccagtca  480
actaacaaga atggcatgaa ataggatatg tacaattttc cnttcatata ccggccttan  540
natccngggt aattttgaat tttaaaaaaa agccttn                               577

```

<210> 8194

<211> 602

<212> DNA

<213> Homo sapiens

<400> 8194

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ggcttaaaca acagaaatth atttgctcat aatttttgag gctggaagtc caggatcaaa   60
gtgtagataa ggatgatttc ctctataatg agccttaaaa gaaggatctc ctccaggaat  120
ctctctttgc cttgaaggta accatttccg gtcacttcac ataaaattct gtgcctgcta  180
ccctgggtatc tctttcactt cttataagga aaccagtcat attgaatgag ggccccattc  240
taactgcctc attttaaaat cactcttta aaaaaaccac atctctaaat accaccatta  300

```

tcttgaggtc ccagggatga aagccttaat gttaatgagt ggatgggaca tgtgacataa 360
 tctaaatcag tgggtccccta actttttggc accaggggacc agtttcgtgg aagacatttt 420
 tcccacggac tggagttggg gattaaactg gtccagttca gatcatcagg cattagatct 480
 cataaggagt gtgcaaccta aatcccttgc atgtgcngtt cacaataaag tcatgcctcc 540
 attgagaatc taatggccct ggtgaactga canaaagttg acctcagccn taatggttgc 600
 tc 602

<210> 8195

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8195

agatcacaaa aactttaata gtcaaagctt tgtaatttat aatgtagaa tttctcaaca 60
 tactgtcttg attacaagtt ctgatggcca ggcatggtgg ctcacgcctg taattccagc 120
 acttttggag gccgaggcgg gcagatcacc tgaggtcagg agctcgagac cagcctggcc 180
 aacatgatga aaccccatct ctactaaaaa taaaaaaaaa tagccaggcg tgggtggcagg 240
 tgcctgtaat cccagctact taggagtctg aggcaggaga atcgcttgaa cctgggaggc 300
 ggaggttgcg gtgagccaag atcgcgctat tgcactccag cctgggcaac aagagcaaaa 360
 ctccatctca aaaaaaaaaa aaaaaaaaaa gtcctgacgg nacctcagcc tccctcaaatt 420
 tcccttcccg tcctgcagaa gcaacccttc aagacttctn ccttactaaa aagtcactct 480
 tcttatagnc ttattaataa aacatggtat aattgctaaa tgtacacatt accccttaac 540
 cccttangna cgccgattct 560

<210> 8196

<211> 566

<212> DNA

<213> Homo sapiens

<400> 8196

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ggcttgtggg attttcaaga tgttttattg actatctaata ttgaatctac ttacaaagag 60
aagaaaaatg tctagtatgt aaagcaatga atgaaaataa atgtttatcc taagtcatta 120
ttgagtacaa atccacagct taacaatgtg tttttaacag caggagagca tgcaactgct 180
ctaacacaca gggtcagaaa taaaaggtaa aagtacattt gttttgtaac tgtaaatata 240
caaatataaa atttaccata tctaccctgt agtgtggcac tgcttaactg ccaaatatac 300
agtcattcaa aaaccttaag gaaacattga aaatgtctca ggctacttta ctgaacatta 360
acgaatattg tgttcttgag ctattagagc taaaagtatt atttttaag ttatatgagc 420
aagggaataa taaaagtatc atttcacgtg tcttttaate ccatagacng ntttttggtg 480
aanggattaa ttatgttaaa aaggaaactg atttgccaaa tagaaaccag tttcagaacc 540
caagtggcct cttggtanaa tgtcaa 566

```

<210> 8197

<211> 568

<212> DNA

<213> Homo sapiens

<400> 8197

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ggttacatat actgttttta tttgggtttg ttgaatgaga ataaaaacac cccagtttct 60
tctgcaggtc gagcccttct ctataacggt cattacaaac aaccctgaag tggctggaat 120
atagtcagca aggggcccac atgaacagct catctggaat ctttgcaagt acgtatttat 180
gtccttttggc gccttgcaac gtaaggcact gttaatgacg taacagaata gaggaatgc 240
ccacagcaaa tagttctagt gacaatttac tagacaagtt acagtttaat aatggtggtg 300
gtgattgttt ctttcatttt attattatta tttttttaca ataagggtgt agcctttata 360
ctccacacac acaaaataaa acaagtgcct attacgaaaa gagtccctgc cccaccccc 420
tagaacatcc tgaacatagc aattcaacag aacagaaaaa tcaagacgtt tggatttcna 480
aaatttcaat taaaaacca aaagtntgta atgcaacagc tggccaactt tcaactttta 540
aataggcncc atttaaccaa aaaaccct 568

```

<210> 8198

<211> 562

<212> DNA

<213> Homo sapiens

<400> 8198

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gaatatcagc tcttttgttg tttatttgta acaaagtga tatttggttc ctgtcagttt   60
gattccttca tttttgtctc tcattttggt cgacatttaa gtacagcata gggatgttat   120
ttaatttaca ttctcacact ctaaaagaaa tactattctg aattaagtag aaaaagaata   180
agcaagtgtg gttactctgg taccatttaa tcacattttc catatttttc aaattttata   240
cgataatgaa attccctctg ttcaacacaa aagaaacact cattctggaa agtgtggcca   300
tttgaggcac aaacaggtgc tgtcacattg gggcagtctg cattgtaatc aggggccagt   360
gggatataca ttttacatcg gggcttaggc cacctagtga agtcacgttt attgaaaatt   420
cctgagaaag ccacatgtgt caaagtagag cataccagga aaaatataat cttgtggggg   480
aaangcagcc atttgatctc atatnagact cttctttgaa aaggctggat gaagggtggct   540
tgaaaatggc cngctcttgn cn                                              562

```

<210> 8199

<211> 557

<212> DNA

<213> Homo sapiens

<400> 8199

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ggggctgtga ctgtatttac ttcatctctg aatcccgcgt ccccgtaggt gggggctgac   60
acatccctgg gcaccactgt gacttctgtg ggggcccttc cttctgtcc ctgactctgt   120
agacccccca caggaagggt cctaggtagg gggaggttcc tcctcccttg aaaccctggg   180
ccactctgtc aaggcaaagc ctctgggccc agcaccttgt aaaggctttg atgagaggag   240
ctctggcttt tgctcagggc ctttggcacc ccaccctcca gccccagga gtgcaggcgc   300
tcaaagcctg tggttaggct gcccgaagca cgtgccgcag ttcttctgga gtgggagcag   360

```


ggggacagag ctttgggtag aggagggtca cctgcaaagc tggaatgcca ggggagtggg 420
 cgggtgccttc agctcctggg ggccaagggtg tctcatacct catgggcctg aacctgggca 480
 agggctctgga atgcacataa cccccaagca gggaaggggc aatgacagga caaancnctc 540
 atctgtccaa aactgnn 557

<210> 8200

<211> 556

<212> DNA

<213> Homo sapiens

<400> 8200

gcttgatgtc tggaacagtt accgaaacta gacctgtatc gcgcattctt actagtgtt 60
 gggcctcaaa gcagtgtctc tcacctaact gcacaaagaa atgctattag gtccaattat 120
 gagataagct gaattataaa tacacaattt tcagaacgac aggcacttaa agctcattaa 180
 gtaaaatata aaaatagatt atattaataa gaaatatatta gtgttcatca aattgtaaat 240
 ctaggctttt gccatttttt aaaaaggata ctggaaactg aaaagagatg acattcatat 300
 gaacaatgca tttttcaaac tttgtttctg agcgtctgaac aatctaagaa attttagcgc 360
 aatctaagaa aaaagactta ccacaaagca ctaaaataa cattgtagat ggggtgggaac 420
 gctgtcaacc atttcttaag tttcccttcc aagtctcagt atcaaggcat caagattcat 480
 ttcacaaacg attgncagcc ttcggaatca ggtantgggc ctgatgtcan aaaccgttaa 540
 aaccttagga ggggct 556

<210> 8201

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8201

agtaaaccga gtttattttac ataatacata ttttgtcatg cagcttactg aattgcagtt 60

agtgtaataa caaaaaaaga caagcactgt cttgctatitt gaaaatggct taatatagaa 120
 agataattgt ttcttaaatg agttaaccac aaccatataa attgctagac aattttaaac 180
 agccatagat aatttttaaaa tgtaaaatct gtaggcaaaa agctttttata gttcacacat 240
 tggtaaaatt aaaaccagtc ttttttagta ataaaactgg atagtataat cttactttta 300
 tctataaaaa caaaaataac tttaatatac atcattacaa ggctcanatt tgtagacaac 360
 tttaaaatat tttttaatgt taacaatgtc ttcaaaatit taccagtagt gctgtgcaca 420
 cagtaggtgg tcattaaatg ctgactgaca tacagaagtg tttctagtta acagcaatcc 480
 atattcattc attcattccc tattttataa taaattttca tagcngtgaa aaaatgagan 540
 gntactttct taccatttta 560

<210> 8202

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8202

aaacaaaatt cacatittat ttagattgaa ataaactata caaaattgat tttcttcacc 60
 aaaaataaca gcaatatitt ccatatittt ctagataaac cacaacactt atttttagg 120
 ttttccaggt tttgcttata aatcaagatg aggaggtata taagagtcac ggaaaaagac 180
 agagaaaaaa aacagacaaa tcagttgtca gtatccatgg cctctgattc tgtctcaacc 240
 atgaaacaga agtgttcaac atatacctgc taaaagctt aggaagatgt aggctccaca 300
 aaggaatgta aacagcaacg agatgtggaa caacagcagg cttttccatt caaactttgt 360
 catttgtttc ttttaagttca agaaagacaa aatctacact gaaatccttg tttggtgagc 420
 tcacaagctt tttctcggta atttcttgta actgtccagt atagattttt aacatactta 480
 aaactcctat tagtcaaang ncaattgngg gcttnactac aacatittat aaaatgggtc 540
 cnttcttcac acctttttta aaaatatttt t 571

<210> 8203

<211> 570

<212> DNA

<213> Homo sapiens

<400> 8203

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cactcataat ttaaaatact ttgttttgat gaaatgcttt gctttcacia tagaagatca 60
gtagtacaca gtatatggaa ctctgtaaca aaattatttt ttgagaaata cagaagtggag 120
aaatagtgat ttcttcaatt tgtttatagt cttatcacia agtaggcaa agttcagtat 180
taaataaata gatatacctaa taaaagtttg tacaagtctt cctaaggaat tacattcgta 240
agactgttta ccttctgttt gacagcagtg acaggaacgt ggggattccc actcatgacg 300
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tgcagcctgg gcttctgca gtgaggtttc ctcacctgga actctggttc catgtttgtg 420
cttagcctgt gcgattctgg taaacacaga aaacctgcct gtccaccccc agtgctgaag 480
actgactggt caangagggt ttagtgaaag tgttgggttc accatgtgga gaacangcng 540
ngattacccg catnttcttt gntgacttta 570
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<210> 8204

<211> 567

<212> DNA

<213> Homo sapiens

<400> 8204

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aaagtgcaga cttttattac tgccattcct gctcctaag ggagcaggag tcagaaggaa 60
aaacaaatta aaaggggcta atgagaaagg aggagagatg agacagagag tgtgaagggc 120
tatgccgctg gcatttcata aattcttatt gagaatggca caggtattaa aaaagtttct 180
gggtagtcta cgagaaatgt caattattat ctctactaca actacttaca tatatcta 240
gggaaaagag tggggcttag gtgtcagagt ggatgggaga caaaggagaa gctacactaa 300
taaatacaac aagtgaagg tacctgtccc attcctaaaa ggatttgtgg gcaatgctgg 360
cacttggtgg ccaggagaat cttctgacct cactctcct cctcttcagt cctgaagacc 420
ccaagaacct agttaggatc ccctggccag aggtctctgt gactgcctct ggactcagca 480
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cgtgcagcag cttgggagga tttgagccag tctcaaaaac ttttagcccc agaattgagac 540
cagtgcacca accaggaagg cttggga 567

<210> 8205

<211> 547

<212> DNA

<213> Homo sapiens

<400> 8205

ctacaaaaat aagacatttc atttattaaa attttataga gaagcataca agactacaac 60
aatcactga agtcaaggtc taaagtcttt gagaagtcag atggaccgga cgcagtggct 120
cacgtctgtg atcccagcac tttgggaggc cgagggtggc agatcatctg agctcaggag 180
ttacagacca ccctgggcaa caaggcgaaa ccccatcttt accaaaaata cagccaggca 240
tggtggagca tctgtggtcc cagctacacc agaggctgag gtgggaggat tgcttgggag 300
gcagagattg cagttagccg agattgtgca ctgcactcca gcctgggtgt cagagtgaga 360
ccccgcctca aaaaaaaaaa aaaaaaaaaa ggccgggtgc ggtggctcat gcctgtaatc 420
tcagcacttt gggaggccaa aatgggccgg atcatgaagg tcaggagtgc naaaaccagc 480
ctggccaata cnggnggaac ccttgtntta ctaaaaattc caaantaacc cgggtgtggng 540
ggcatcc 547

<210> 8206

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8206

gacatagtta tcaagtgttt attcagaaac tatttaaaaa attacatgtg ctgggataca 60
tatgagactg taacaacagt agccccatct tacagatatc ctgtttgtca ttatcatcat 120
tgcttgctgc ccacagggat aaagacattg tatagagact tgtacagtcc atgatttggt 180

cttctgaggt gccagtacac gtggatctgt acaaatgcaa ctgggtttgg ttaaacaatc 240
 gaaaatcggc tacaatagta gtcaaatgaa catgtcattt tggttcatta ataaaaatac 300
 tttcaaatat tttctaataa aacccaaaac ttgcaaaca ttctctcgga atggcccaat 360
 caattgccct attttttaaa atacattggg atacaatcag ctctgttttc ttaaaagaaa 420
 atgcagattc aattgggtgg gttgcattgg cttttaaaga attagcccat taaatcttca 480
 catttgaatg attgaaatgc cnttctgata ccacgttagt tttagaaatg ccgaatccta 540
 atn 543

<210> 8207

<211> 554

<212> DNA

<213> Homo sapiens

<400> 8207

gaaacagttc tctttaccgg tgatcactga gtgacgcctg gggcggggag gccgaccgag 60
 agtcgggggc gagggctccc ccaccgtccc cctgccccca cgccacgtcg cccagcggca 120
 tcgtggaaag aggattctcc catgcaaacc ccggagccag aggagaaggg gaagcgccat 180
 tctgcgcccc ctacccccgg ggcacggaca cggccacagc acggggggcg gtgaggcccc 240
 ggggacacga gacacggggg agggagaggg gaccccgccc gcagatgacc cgggggaccg 300
 gcgaccggac gcggcggggc ggagctgagt ggcacagggg gcgaggcttg tagcagcgag 360
 tccccctcc cctcctttcg gacnaagaag gaagacttgg gccccgcgac tgggcaggaa 420
 aaaggggagg gagcaacctt ntccccgcat gccggcccgg aaggaaagcc ccggccccctt 480
 tccgcggggt aaaggacacc cgttttccaa cngaaacttg ttcaattaat tnccaangtt 540
 tnagaaaang gaat 554

<210> 8208

<211> 545

<212> DNA

<213> Homo sapiens

<400> 8208

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ggtacatca attttttatt tatagttttt tctaaacaag atccgaagaa acttccactt   60
taattttccc cttggagtac ttaaagtact tcaagggtca atgtcaaag cagataaaac  120
cccttcattt tcaaacttac taagtgttaa caatacattt gatagtgagc agaatatgaa  180
agtacagatg ttatcaaaaag aggaaattct tatgatacta gggtcagaga ttaaagaatt  240
tgaacaagg gctttcatga ctggggaaaa tcaaagcttt tcttgaaggg agtgggcttt  300
taatactcga gctattaatt aaatgcagaa atgagataac atagttatcc tgaacatcaa  360
aaaagcaaca gctaatacag ctaatgcatt ataaataatg tatttcataa ctgaattaag  420
taaagcatgg ttaccactct aggctagaca ctaatcagtt taaccattt gtagtttcta  480
attttaaaaa agttingctt catattttta atttcaattt actatatata tattacatat  540
ntncc                                         545

```

<210> 8209

<211> 535

<212> DNA

<213> Homo sapiens

<400> 8209

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aatttttaaa attttttttt gtaaagacag ggtttcccta tattgcccag gctggtctgg   60
aactcctggg ctcaagggat cctccacct cagcctccca aagtgtggg attacaggca  120
gccatgccc gccagggcag tcatttttat gcacaacttt ctgtggggct caggtgcacc  180
tatgatacat aaatttacag ttcttgatcc ccaaacagag caggaggcag ggtgcctggg  240
ccaggcttcc tttgggaaat gtggtccttg aggtagagtc acagatgccg gaggggtgacc  300
agcactactg gggagagatc tcctctggga gagatgcatg ccaaaggtcc tctgcattcc  360
tcatacctct gatgcggaca gaggggtgtc cagctgaatg atgtggggcc cccgcatttc  420
tgcaactggg cccgaatcaa cttnctggc ctgctgtccc cgggctcttg gccccttaat  480
ccttngctgg gcagctcctt ccggattttt ttacatgtcc taagcccgat tgggn      535

```

<210> 8210

<211> 534

<212> DNA

<213> Homo sapiens

<400> 8210

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gggccacact gaggcacatt tatttctctg ggtcacacag agcttgggcc tgggagcctn   60
ttntgcatgg gggctgcagc tgccaaggga gcggtgana ccanaacaag cgctcgggtg   120
ggccccagtg caggttggga tgtgcccggg ggagtaaggn gtganaaccc ccagcctcac   180
tctntgcctg gtcctgaagc anacagcagc aggctggccc ancctcccct ttatganact   240
atcctagggt ttgacagcaa gtcccanatg aagggtgaca ggcagctggg gtccacctgg   300
tctctcctca gcagggggaa cccctgcgg gcagctggga aggagtggtg caaagggtcaa   360
gaagatgaac tctgccccaa cctctgctgc ctgtggctat ggtgggacag ggctgccttt   420
ctggtcacac tgggcaacaa gccaatggc aaggaccttc cantccaag gcttnatttc   480
ctggcccgga nncctttttg ttgaactttt cgattaattc nccagggtta tttt       534

```

<210> 8211

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8211

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aagaacatca acatttatatt aacatgataa aaaaagaaat gagatatgaa catttgcatt   60
taaacaatag taagtagcct ttaatacatt acatgtgctc attgtataat atatacacia   120
tgaacataat tacatttgta cacaaactaa gtaccggatt tgggaacctg cttattgctg   180
tacacatgta ttccaatgaa atataagccc agtacttcaa aatacctaca ctttgttttt   240
ttttttttta agaaaagata agcagtaaca tttgtgttta agctgacagg agtgtggcag   300
taactgctga cattgcaatc tgaccgagaa agaattatag cagaaaacag gacatacttc   360
acttagcaat aaaatggcac attttaaata catatatata aaatttttac aaatcaagtg   420

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tgaacaaaa gcactgcagt agctaaaatg ggaagaaaaa aagaaaacca gcttcaatgg 480
 aaataatact aacttttagga aaatgagaag ccnaaaaatt ttttntnaa ttccccagac 540
 cttagaac attgn 555

<210> 8212

<211> 551

<212> DNA

<213> Homo sapiens

<400> 8212

actcactgca gtatgaggga caaatcacaa acacttactt tggagaaaca gagaccatag 60
 ttagactttt acaaaatcac tttttaaatt ctctgtattg tgctcctcaa atacctagag 120
 ccagtctttg cataaaatat cacagcttta tctataacct taaaattctg cagcagccta 180
 aagatatgga taagatatac caccacttgc tattctgaaa tatatctatt accatatcca 240
 acctaatgat agtatctaaa aaattctttc ttccatagga agtctctgac aagctgttat 300
 tcatttcctt gacgttaaaa gaatctgggg ccaacatttg tattttatca gaaaaaata 360
 aaaaaaagt ttacctacca tggtcatatt aagaacaatg tctatacaag tcagttgtca 420
 attattttaa gagaaagggtg aacatgaaca tcagattaac ttaattctgg cagacnaaag 480
 tgaacaactt tngnccagtc agccattatc tantnccggg gagatggcca cctttccaaa 540
 agggtnnttt c 551

<210> 8213

<211> 484

<212> DNA

<213> Homo sapiens

<400> 8213

atttcaacaa acatttattg agcacctgct aagtgccagg cactgnggca ggcctgcagg 60
 aatacagngg tgaatgaaag cagaccatgt ccctaccctt cacggagctt acagtctagc 120

ggggcanana gtcattccagc aaccccctaa taaagatata actacaaact gcgatcagng 180
 cctttanaaa aggaaagaat gccctaaaat aagggtccct ggcccaatct acagggtcag 240
 gcagggttta ctttaaggatg ctgaaaagca aaacgagcaa gtggggaggt aggggagtga 300
 naggtgctt gggaacactg tggganaggt gatgaatgca gtccccgaca aggtgagttt 360
 gaggaattat ttgggccatc agtcaagtgg agatgcccga gtttgatac atgaagctaa 420
 gggaagaacc cggagaaaaga naagggccnn aaagttaaga aggaaaaccn gccnantggg 480
 gctn 484

<210> 8214

<211> 545

<212> DNA

<213> Homo sapiens

<400> 8214

aaagttaaac agtattttatt caatttgctt attcttctc actgaagttt cttgggcctt 60
 acatttttaa ttgataaaat agtcttaaata taacattcaa ataatagctc gttccctgaa 120
 ataactaga gaagccctgc tccctctctt tttagactac ctataataac attctgctga 180
 gccaacatgg agcagttctc ctggcacatc ctgcctgggg aaaccgtggc agtgactgtc 240
 attaattgga gtcacagagc cctccagcc tctagactat gctgtcaagt ctgtatgggtg 300
 aaggccctga gtcaccacaa cactgaaatt gtttgaggtg ctctggaccc aggaaacact 360
 gcctggccat ggaacactct agcggaggag aggtgaggat taccctggc catggagcac 420
 tctggtggaa gggaggtgac ngattatccc tggccatgga gcactctatg gaagggangt 480
 gacngattac ctnttgatc atgggcntat gaaagaaaaa ggggtggggc tctagtaaac 540
 cccta 545

<210> 8215

<211> 554

<212> DNA

<213> Homo sapiens

<400> 8215

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aaaacaaaa aacatTTTT cattaaaaa agtatTTaga acacacaaaa caaggcaaca   60
cttattcttt ttctcatct tctggtatgg gatctgttgg tggctcctcc actgttgcaac  120
tgttgctctc cgagccagtg ttactatcac tggttccttc ctctgccata ctgtcgaccc  180
cctcctgccc actctccttg tcctcaggag tagacgtgcc ttcttcacca ttctgttggc  240
tctctgttgt ttcttcaagg tgtgtctcct ctgtctccat cggaatgttc tcgtcgtctt  300
tcttctctc gcctttgtta gctgcttggt cttctcagg aacgatgctg ctctgactgc  360
gctcagcttg ctctgcggcc tccttctccc ttctctctg cctttgcggc ctgttcctct  420
gcctgtgcaa tctcagctgg caattttctc catatccact ttactttcag accggacaac  480
cttttaagct catggtnaat gaactggctt tcaggaattt ctcttctct cgggggcgtn  540
cctttttgaa naag                                                    554

```

<210> 8216

<211> 499

<212> DNA

<213> Homo sapiens

<400> 8216

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agtttaaaan aaaagagctt tatttggtc acggcnttgc aggctgtaca anaaacagtg   60
agggcttcag gctgcttcca cttatgcagg aagatgaagg gaggcaacgt gagcananat  120
cacagggcaa gaatgggttg aggggtaggg gtaagtgcc ggtgccagcc tcgttttaac  180
agccagctnt ggggtggggg agggacntnt agagcgagaa ctactcatt accccaccaa  240
tggaacnaag cnttcatga gggatccaaa cacctcccat taggccccac ctncacact  300
gggaatccaa tttcagcatg aggnitgcng ggttgaatat ccaaactaca tcactttatc  360
agataaatga gtagtcattc aggttgaaaa ggggtcaaaa tcctttaagg ggtcattcan  420
aatggtcaag gtcaaggttt ttgcaaccn ntttactgnt cattaatcnn ttatttacct  480
tccgattaag ggaanggcc                                                    499

```

<210> 8217

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8217

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aatatttgaa gaaattttatt gagtcanata tgagtgacca tgcccatga cacagccctc   60
agaaggtcct gaggacatgt ggcaaagggtg ttcttcaaag tgttcattat taaggcatcc  120
atctcccata acttcaatgc actttgctaa acaatgcatt atttctgagg acatctgaat  180
ctgtttctgt accaatgggtc ttaatcagaa catcacataa attgccacat ctgtgtgaga  240
tactcaggac cacggactct cacacactcc agaagaaaag gcacggattc tgctgtgcc   300
cctccaacac cattgtggaa ataaaatttc agtaaaggga ccaccagttt gacaacctgc  360
ttggtgtact ccacaaagca gtcaaatcag ctatgtgctg caaaaggcca cttttttttt  420
ctttgagatg gagtctccct gtcaccagg ctggantgca atggcgcaat ctcgntcac   480
tgnaatcttc ggctacctgg gtcaagcgaa tcttctgaaa cagncccaag cngnana   537

```

<210> 8218

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8218

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gctttanatg cttctgggtc catcactggg acctaaaaga agtcacatg tggctctctgg   60
aatgctgaa gctgtggact gtagacatta ttttcagtcc ttgtcctggt ggctgcatac  120
canatgctgc tccttccctg tgtgtggcca gctgtacaca gtgacatgct cccaaggccg  180
cggcacaggc ggtgatggga actcctcccc gggccagcct ctcaggctgc agccccacgg  240
caccctgagg ccctcatctc tgctcggcag ctaaaacatc tccttcttcg atgctctgca  300
actgcagcct ctggctcaca agagttctgc tgcctcggcg gccccgaag ccgccccccg  360
ggacaagtcc gtgctgtaac caagaccctt ggcaaagcct tctcccaaa taaagtttga  420

```

ttttggcttc ggcctcaatg gctttggcca aacttgctgc gtaactgnnc aaggacttgg 480
gnactttaac ttttacctga agaactcgagt tcttgggaac ttctttgaat tgggccacct 540
tatccctnaa anntanccaa 560

<210> 8219

<211> 548

<212> DNA

<213> Homo sapiens

<400> 8219

gagacacggt ctcgctctgt tgctcaggct ggagtgcagt ggtgcgatca tggctcactg 60
cagcctcgac ctcccaggct gaagccatcc tcccacctcc gcctcccgag tagctgaggc 120
tacagggtgca cgtcatcatg cctggctaata ttttgtatct gttgtagaga cgggggtttg 180
ccatgttgcc caggctggcc ttgaactcct gggctcaagt gatccgccc acttcggccc 240
ccacaaagt cggggactac aggcgtgagc cactgcaccc agcaggggtt gaacttttca 300
agccaattgc ggaaacatgc cctatcggcc ccagccccac ctaactcttg ctgaattctc 360
ctctcttcag acttgaaact ccacatgtcc ttgaatgtct gganaaaccc tgggacgtgc 420
cgntattcat gggtagctct ggtcaatggc accggtnggt ctttgaactt cttancgatg 480
canaacaaaa accccgtttg ggtataaaaa acatccatna acaagttggc accnngncct 540
tgggttga 548

<210> 8220

<211> 565

<212> DNA

<213> Homo sapiens

<400> 8220

gaagtagaag aacagatcat ttaattatac aaacaaaatc gctttccttt gctccagcga 60
gtccaggcaa cctttcaagt tcatttgctg cctgaaagaa aggttttttag tatcagaaag 120

aacctcgctg tcctccaata tccacaggga aaacaagatc agaaacaaaa gtccaccatg 180
 gaagaaatcc cagagcgatc caatttgga agaatttaata taacaaaata aaacggaggg 240
 aaaatggtcc aggtggggcc ctagggagat cggacttctg tcccagctga agtctgcca 300
 gcacacctgg tgggcagccc ctgggcctgt cactgcagaa ctggccttga caagcagacc 360
 cactgtgcgc gacgccacgg tticcttacg cactcggcat tatgtacaga tatgaaaaaa 420
 cccaacggca ggtggctgga aagtggcttc tagctnccct atgctggctt ggcacgttat 480
 gcatgccaa ccangaaggt ttgcnngctt tacccaacag gtaatttngc aaaaagnгаа 540
 ccaccnccaa aaggttaaаt ttttn 565

<210> 8221

<211> 542

<212> DNA

<213> Homo sapiens

<400> 8221

atTTTTTTTT taatacaatc accacaacat aagaaaattt aggtttcaac tgatgttaaa 60
 gcacatttct gtatctggtg gtttttaaaa aaattacata ttatatattt gacattttta 120
 aagacaacag aaacaaatcc acagattact ccacctttac cccactttc agctgaaagg 180
 ttttaagaaa aatcttgcag gttatgagga ccagatggag cttaaaaaca gatccggaac 240
 tttttttttg aaattttatt tacttttttt ttttgtatct caagaatact taaaggaaaa 300
 aaaaaagggt tctatgagcc agaggaattc ccaattcact ttgaaattac catacctatc 360
 ttgccatatc aaacatttca attctgttaa ctaaatgaac tacataatat ccttaaaaaa 420
 cagccagaga agagaaaaac aaatctcgct tcattattga ctttgacca aacttattct 480
 ttcaanggt agtnacca ctaaatatgg ctattataag aacntcttc ttaaaagnag 540
 tt 542

<210> 8222

<211> 529

<212> DNA

<213> Homo sapiens

<400> 8222

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gagatggagt cttgctgtgt tgcccaggct ggagtgcagt ggcgcaatat tggctcactg   60
caacctccgc ctcccagggt caagtgattc tcctgcctca gcctcctgag aagctgggac  120
tacaggcacg cgccaccacg cccagctaatt ttttgtatgt ttagtagaga tgggggttca  180
ccatgttgac caggatggtc tcgatactctt gaccttgtga tctgcctgcc tcagcctccc  240
aaaatgttgg gattacaggc atgagccacc ggcctggcc cactagctct agtttttata  300
acacattgtc acctcagata ttcataaagg ttagatgttg caaaataata aactctgtcc  360
acaataaaca caggcacttt actaaaaatg ctcatataga cctgtgggta tcactataaa  420
ccatcttcta gaaatggaga tactagcaaa gagcctttcc ttgccttct cttctcctnt  480
tnaccatcc cagggnctta atttnggacg tttaacttcc aaaaanggn                    529

```

<210> 8223

<211> 524

<212> DNA

<213> Homo sapiens

<400> 8223

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gttttaaata attgagcttc aagtaagggc agcaagtagt tttcttctt tttctttctg   60
ttttctttt ttcttttctt ttttaaaga cgtgttttgc catgttggtc aggctgggtc  120
tgaactcctg aattcaagta atcaacctgt cttggcctcc caaagtgatg ggattacagg  180
tatgagccac cgaaccacgc cagcatcaag agttttaaaa ttaaggacat aacgccattt  240
cacactttaa atagactata gtgtagtgta aacatagctt ctttttttaa atagagacag  300
gatctcccta tatgccagg ttgatctcac aattcctggg ctcaagtgc cctnccgcct  360
ncgctcctaa agtactggga ttataggcat gagccatcac acccagccaa tataacttca  420
tattcacaag gaaacaaaac aatttggggt gactcacttg tagcaatata cngcttaatt  480
gngngngnct cgaatcaaatt ctacaatata ttgaggnatn ggct                    524

```

<210> 8224

<211> 528

<212> DNA

<213> Homo sapiens

<400> 8224

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cttaatactt atctttatta tgaaagtgtt tccaaagtaa aatgacctc ataataatga   60
ttgcttcag agatcaagaa tgaataatta tattttcata taaaatcag caaacacaa   120
taacaatata taaaataatt ctaattggct aacagtatct cattccattt ctgacagaga   180
tgctcaagca ctgaattgtc ttaagaaaac aagtaagggt ttgtcaccta tcctatttct   240
cactgcaagt tgaaaaaat caaatccaaa caccaccacc cttctatga caacaaacgg   300
ctgtggaggt aaatgactat gtgggcaaag agttgatgaa aatcatgagc ttaggggctt   360
tatgaaactt tgggaaatca aactcagagg ttgnnttcca ttcttaaagt aatgaagctc   420
taagttaaag tttcagaatc atcacataac tggtcctatt ccatactcat ttcttttttt   480
tttttgcagg aatcttaatt tcctaaggga ggttcatgga tgacnggg                   528

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<210> 8225

<211> 523

<212> DNA

<213> Homo sapiens

<400> 8225

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actaaattat acaataatag actcaagatt gccattgctt cttcactacc caaaatatcc   60
aagtctagcg cagcagcttc aattccacca gttgttctgt aagatttatt ttcctgacag   120
aaacaaccac tgcattatta tttttacata taaagccaca ttaagaagtg gatactgaat   180
acagaagcaa ttgtccttgg ttttctactc ctaagaatgg tcaccaagtc ataatatcct   240
caccaatggg actgcttctt aacaccctc aggaattatg aattctgagg ttaaattggc   300
atatcatgat cagaataata aaaaaagata gcaaaaatgt taaaacaagt atagagcatt   360
caggaacagt gaggggaaaa gccatttctg nttccgtcta aatgcagacc tcttcatgaa   420

```

atattttggn ggaagttctt aagcctggna tgaatnacat gcntataccc tgcccagatg 480
gaaacctgaa aaaggatatt ttaattgggtt tggataggga acc 523

<210> 8226

<211> 536

<212> DNA

<213> Homo sapiens

<400> 8226

cattctctga gtgctattta ttgtctcaat cttcattgct taaagtcagg aaacaacaaa 60
cacattcata tttgtggcaa aacatctacc tactcatgac atggcaaata gtcattttac 120
aataacaata cagtacaata tgatcgtgct actttcatgg ctaggaatga agttgttggg 180
tttctctttc agagctaccc ctaaaggcat tcactttata ttctctgaag agaaccagct 240
aaccaggcgg aacatccact aagaatcttc cacataacca gaccccagga gcttgcctat 300
tgcccatacc agagaggccc atttggaat acaccatctg gtctcttgag cacagacctg 360
gagtgtggga ttcagcttgg ctggctccaa agctggcccc tactggatca agctgagatc 420
cccagcctgc acaggctgga ttccactggc caacacgtng gcccctgggt gggtcctggc 480
cggggggttc cttttggnaa agacctggga naggaaagga gctttctatc tggagg 536

<210> 8227

<211> 524

<212> DNA

<213> Homo sapiens

<400> 8227

aataccttgg ctttaatgat ttttcaaggt taagaaacaa attcaaattg gttggagctt 60
caactcagta attacaatca caatgcatct ctgaaaggcc ctgcatttgg aggcagagta 120
atctgcaaag atgatagttt ttacatatgt cctgttacct acaccaatat aattactaca 180
ttatcttata aagacaaaca gttgcttcaa actcttttaa aaatatatat ataattgagtt 240

tcccaaagac tcgagtctat attcaaagat gagtaaaaaa aatccattac ttccttaggg 300
 tcactttctt cctttactcc tgcttaaatg caaaagctga tagtttctga tttgtagaaa 360
 aatctaaagg tttctgcttt ttagacaaat tcaggttctt ttttgctttt tcttcctggn 420
 tttctgnttc atcactttca tcaaccacac gttttcgctt ctttgcttca gttccttcac 480
 ttggccgttc ttccttggct ttggtagccc caaccttttt tttt 524

<210> 8228

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8228

accaagttca taattttatt atactctgaa tagagatgat atttaaggag cagagaaaaat 60
 gactatacaa aagatttata gaacattcat ttacatactg gatataattct ttacagtatc 120
 agaaaagtaa aaatatgcac taacaaggca gagaagacgt tacaaggtat ttgatgctga 180
 gaataaatgc acagtgactt ttaacatggc tatagcttaa cactggagga atacaacaat 240
 acgttctttt actgagtagt tagtaggacc ctggctataa catgcgttgg gcacagttcg 300
 tgaactctcc gcatttactc cccagggcag tacgtgcctg tccagcggga gccctggaga 360
 caaaatgcct ggaaacgttc cttttcctgt ggccctagac cgggtgcacg gtgggggctc 420
 tcttacggnt tctgagccca cagtacaatc tgngatgacc ncacaagttg gtctggttaa 480
 tgcncatggt accccaaagg gagaaaggaa acnttctata ccagtttttn naaaang 537

<210> 8229

<211> 514

<212> DNA

<213> Homo sapiens

<400> 8229

catttgaaaa atattttattg agcacctgtt ataaggggct gagaaccata aaagacacta 60

ggggtacaga aaggaataat taagacggcc tgctcttgag ctcacagtct agtaaggaag 120
 gtaaacataa acaaatacatt acaatacaac aggaaaagag ctagagcgga gatatagaac 180
 aattgcacag aggaaagagt aactaatctt gcctgaaggt aacaaggaag agatggcact 240
 tgattttgaa gtttaaggat gaggatatt ttagcacggc agagggcaga gggggcacag 300
 ggcattccag gcagagggaa tagcatgtgc aaaggcactg aggtaaaaac atgagcatgg 360
 ttggttcaaa gaatggtgtt gaagggtaca cagaggcggg ctgtaaaggg tcttgtcacc 420
 acactnggaa gtttgnattt tatcctgtan gccatgggaa agntttaagn ccacattttt 480
 catttgggtc ccanggtttc ttagaggctn ttgt 514

<210> 8230

<211> 544

<212> DNA

<213> Homo sapiens

<400> 8230

cttttttttg gtaaggagaa gcaggagtaa aggggagtag ctgaaataga aatgaatcat 60
 gttaagaaat agtaaaatca aaattaactt ggtaataaag ttgattttg ataaaagtaa 120
 atagacatgc tatatagaac aaatgaatga gtaatgtaaa taacttaaaa ttgagagaaa 180
 agctctcttt tcagggctag ctacagctct cccacaaagg ggcttttgca taccacataa 240
 cctgggtatg agaaaaagta tgggcagagg gcagtgttga gttttgtat ctgtaactta 300
 aggtagtgtt caaaatgtcc tacaaagttc ctccagctg taaattcttt atatctaatt 360
 cctacctcct tcgtggagcc tgtttttact actccaggta catcagattt ctgaaaccaa 420
 aaaatgaatg caatttaaat gtggctagaa ttgactagca aggcctagat ctttaagtaa 480
 taataatata ttttгнаacc attaatacct taagatcctt ttcaagnatt tggataccct 540
 ggaa 544

<210> 8231

<211> 532

<212> DNA

<213> Homo sapiens

<400> 8231

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gcattttaac ttcctttaata attcactcaa aactgtaaca cgagaggaat ccactgttta 60
gttaacattt acacacaatt ataaagaata aaagactgaa tacatttatg aacaaactgc 120
agtatgtctt taggttcata ggctgtcaa cacatttaaa gcgtatagca aatgaagtca 180
cagaactata gggctacaag aaaatccac aagtttatag cttaactgga atcagattta 240
tcttgataca gaataatcta taaactcatt taatgggtcat tttgtctcat ctaacaaacc 300
acacagatgt caaccaccgg gccttgcaaa tgcagagtgg ccatttacat ttaaaatgaa 360
gtattataga caaccagaat aaaatcaatt cccgtgttta ctattttcca ttttcaatat 420
gagcatttga aatgttaata tgagatcaat ttcactatit aaactcacat tacatatctg 480
aaactccaat gagtngcan gaattngacn tctgnagnen ttggctttac at 532
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<210> 8232

<211> 541

<212> DNA

<213> Homo sapiens

<400> 8232

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aacatgtatt tctcaaaata agattcacca tgaacattat tttagatatt tttacatctt 60
ctttagctaa ccaagtgaat aatccaatat acacaaatag gtactttcat cagtacataa 120
aacagcaata ggtagcaagg ttagaaatca gaatacaagt tcaattgaat aaatacaata 180
ctagtacaga gacaccatt ttttaaccac aatgaaaaat ctgagccatg aataggtttt 240
ccattttgaa tctaacttct agatgatctg tattttgacc ttaaaggggc caaaatattt 300
aatatgggtg aagctcatgt tccattacct gtaaagggtc aatgcaacag aaaaatggtc 360
attttacatt ggtagaatt ttttaactagg tctttcatat tattttgttt agcacatgac 420
agacttatac acatatttta aaaaatcaaa catgggaatt tctatataca tcaaaccctt 480
taaccaatgg tctgggctct ggaattgnta ttataggtgn tcnaaaattt tccaaacnaa 540
c 541
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<210> 8233

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8233

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aaaggccaga aacaaacttt aattcccaag ccggaccctt aagtcacaag gaacgtcaga   60
tccggctcac tccctgacag ggtgaattgg aaactggccc ctacttggtc tctaaccctt  120
tccactgggt ctagtgggga ctctgacgcc gaacaggggc ttagatcag tgagtgtgta  180
tgtgtgtgtg gaggggcagc aggggccgct ttccacgtgg ttacataagc acgtgttggg  240
gttgggcagg tgttcctccg gtctgagggt cctcgtatgt ccaaagtctc tgtgcataat  300
cgcagaccca gatgtgtttg catttggtag aatcagggtg cttaaaaagg ggtgactgag  360
ggctgcagtt gcagagggtg ctggggactg tgcctctgtg ggggccggcg tgtctcantg  420
ggaagatact ctggggaacc cgggacnatg tcgtacgttg ggtagctgtg tggacaagtg  480
gttgggggtg tgtggacatc ggtggtcaca agctgggaaa atggtgtanc ccaaaaa   537

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<210> 8234

<211> 531

<212> DNA

<213> Homo sapiens

<400> 8234

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gtttaaatct gcattagaga gatatgcaac attctcaggt aacattgttt ctttggttac   60
atcaagattc ttctcttcag tgaactctag atgcttcaaa gataaagata aaatattttc  120
ttctttttca gagataatat ctcatcgtc tcttgggcta gtgcttctat cctcacaaga  180
atatgcacac aactcaatac gttcaatttt ctctggaacc gaagaactca taattattgg  240
cactgaaaca aaacgttgat aatgttccaa cattcttggt atttttctt tgcttaccct  300
atgaatgtta cgccttgcaa gttcctttgg tttaaacttc caccatgtgt ctggttcccc  360

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aaaaaggact ttatatgttgt gtttctgaga caaagcaaca tatggtttca tttcccatgc 420
 ctgtaggttt gtattatcta taattatagg agatatcttc ttctcaaagc cttcttttgc 480
 acgattctgg gtccatcatg ngcttctcct aagactttac atcaactggc c 531

<210> 8235

<211> 538

<212> DNA

<213> Homo sapiens

<400> 8235

atattttaa tttttaactg taagtaaatt caaacaact gttataaac agaatacaca 60
 gttgtctgca tagatcataa aaaacataaa aaccagaatg ctgggtaggt gctgggtggg 120
 aaaactgcag ggctaaaact tgctcaaca tgaactagg accactatgg cttaatgaac 180
 atggcccacc cctcctacta atggttttgt caacttttgg accctagaaa ttcagaattt 240
 tctccttctt cctctgccag ctttgggtccg tgtccgacta cctggctgga cagtaacttg 300
 ctttttaaag nccactaagc aatctgtggc ttctgaaatg gaaacaaaag acttgacggg 360
 agattcattt aagtcacgac gtgtgaaaga actctgcac tctctgctgc aagcctgcct 420
 cttcatcctg gtgaaggcac cctgaaggct cctggttctg aagacttgat gnetgcattg 480
 gaggcttggc ttaaactgtt ccaagaaact aagggtcggc cttactgggg ctttttct 538

<210> 8236

<211> 549

<212> DNA

<213> Homo sapiens

<400> 8236

aaatatttaa atgtttatta ggtattatac ttatgaaaag tgcaaaaaca aagaactaca 60
 gcttactgat ttatcacaaa gcaaacacca cataggccaa gaaatattac attgcaagca 120
 ccttacatac tccactcatg cccctttccc atcaccagcc tctccctccc tttgaaaagt 180

agccattagt cttaatataa tgcagtcatt tctttactct cttttataat tttaccacct 240
aagcattcat atatatgcat gtgtataata cagtttttat ctacagaagt gtaaataaaa 300
ctattgcttt gctttgccta tatttgaact ttataaaatt aaaatcacat agtgtatggt 360
attcttctgt gctgtttttc acgtatatcc atgaaatcaa tccacattgt ggcatactgc 420
tgtaatttgc ttatttcatt gatataata attgnacaaa atggtacaat ttatcaattt 480
ctatttataa tggacatttg ggctgggtca gttggggcta tttagaaaaa tggggcatgn 540
accgnttn 549

<210> 8237

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8237

aacagcttgt actttattac atatgcaacc ttgccatgcc tgccagttaa ctccccctccc 60
gccaatgtta tcctcatgat atcagctccc tcttggggcc actgagctgc ccccccttcc 120
ttctgggctg gagtagtggt gcccctcaag caggcaatgg gcagggggag atccacaatt 180
aatcgtcgca gttctcttaa aagtattaac acttaaataa gcactcttgg ggagttgcaa 240
aggatattca ggatgggatg cagtgggagg ctaccctca tccaaggtac aggctggaat 300
gagctacagc tggctctatc tgggcctcag aaggtgaaga gggaccgtat tctggggcctt 360
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ggaaagcctg gtggtggaca taggcctgac agtagtaaca ccaggctgac aggtcgatgt 480
aactgaagga ccancgggtg tncaagaatt tncatggtgg ttggaacatg tggncattga 540
tgtacnacc cagtagactt 560

<210> 8238

<211> 554

<212> DNA

<213> Homo sapiens

<400> 8238

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aacacaatac catttatata tgatacacia gacaaacata tttgaaaggt acatccacaa 60
gtatgcaaac attcaaagtt ctggaaagac acacattaag ccatgacaac cacagaaggg 120
ctaaggaaaa tttccatggt gaaacacttc tggggccagg tgtgatagct cacgcctgtg 180
atcccagcac tttgggaggg caaggtaggc agattacctg aggtcaagga gttcaagacc 240
agcctggtca acatggtgaa acctgtgttc tactaaaaat acaaaaatta gcctggcggtg 300
gtggtgtgcg cctgtagtcc cagctactca agaggctgag gcaggagaat cacttgaacc 360
cgggaggtgg aggttgcagt aagcccaggg tcgcaccact gaactccagc ctgggtgaca 420
gaaccgagac tctgtctcaa aaaaagaaaa aaattaccgg gcatgctggc acatgcctgt 480
aatccagctc ttcaggaagc tnangcagga aaaaccntg acccccgana tggaaggttc 540
aatgagccaa ggtn 554
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<210> 8239

<211> 554

<212> DNA

<213> Homo sapiens

<400> 8239

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gcttcaggcg cttttattag gttccactgc agggctgggg tcaatgtaat gcaaatacaa 60
gcccagtgat gcacacctgt gagccgaaac agagccgaag caggagcacc tgtgtcccag 120
gagcagctgg ttggagggag ccagggccag gccccacctc ctctcgggac caggagactg 180
gcagccgctg tggtcacctg ggcagggtgtg caccagtgca cccccactgg attatggtgc 240
tggttagcatg agagggtgtg tccacaccaa gggcagggtga agatgcgagg tggggctgag 300
acctccttcc cacaagagga ggtggctgag cctcccaggg cctgaactct cacagcaggg 360
ctcaccacca agcctgtatg cttagctctg actctctttg gacaataaaa taaagtgcac 420
tactgaacaa agagtaactn aaaaccagaa tcagacaaat cgccnatgct ttttccttta 480
cttaaagacc aaagaaacat gaatgatgtg aatgcccgga acttnagagt aagggaatc 540
ttgtggagga caac 554
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<210> 8240

<211> 551

<212> DNA

<213> Homo sapiens

<400> 8240

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aacagatttg tatcagttta ttttggtgca aaaactgtga aattcatgca caatttttcc 60
ataatatgta tttttccatg agcttcttga agaccacttg tactagaaaa ctgtattcaa 120
gaggatatat aaaaggattg tagatatgca agtgccatth acttctggca tgcaaggatg 180
gttcaacata ttcaagcaaa tcaatgtgat ataccacttg aacagaatga aagatgaaaa 240
ccacatcatc tcaacagatg gagaaaaatc atttcacaaa attcagcatc tgatcatcat 300
agaaatctta aacaaaatag atggagaagg aaatttacct caccaataga aagaccattg 360
atgaaatgac caatgtggag ataaccaagc agggaaaata gaatcctttt cccgtaggat 420
ctcacatgat gcaagaacgt tctcactttt tctattcaat aaatactgga agtcctagcc 480
agagcaatga actagccaaa agaaatgaat gcctcaaaat caggaaaaag ttaaaatata 540
tttttggnag a 551

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<210> 8241

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8241

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actagagacg aggtttcact gtgttggcca ggatggatcat gatctcctga ccttgtgac 60
cgccccacctc ggccctccaa agtgctggga ttacagggtg gagccaccgc ccccggcctg 120
ggcttggttt tctttaggtt taccctgtct ggggctcatg gaacctcttc aaacttaagt 180
ttttatctta caccaaata gagaaatgtt tcatcattat tttttcaagt ggttttacta 240
catcacactt tctccttttc ttccaggata ctgaggatcat gaatgttagc catttggtat 300

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cataacactg ctccccaagg ctgttgca ca tatgctgaat aatttaagat tatagtctac 360
acttctgaat tttaggttat gacactcttg ggtctgtcaa gtcccacggg tgatggagat 420
actggttcat caggcgaagt nacctantca ggttcangag gcaagttcta ttggaaacca 480
tgtggggtcg tgcttttcat ggtggatctg gcttaaagnc tacgcanaac tgnntatggc 540
tcttttnggc gaagg 555

<210> 8242

<211> 525

<212> DNA

<213> Homo sapiens

<400> 8242

gcaacattta atacagtttt tatttgttta atttggtaaa tgtagaatgt aatggtttca 60
aggcaaacc tgcactactt cagtcacaac ccaatagtta acatgattct gaagaacagt 120
cttatctgca atatctaccc acttctaaac aaacacatct atagaaatcc atgtacatat 180
atattagttt tcaacaagtc aggattttca acaactctaa aatttcaatt ttatattctg 240
aacacacttc aaaattatcc acttgatgca ggatataacc ataggagat aaaaattcat 300
gcaatgatac tcaggttttt tttttttaa ggtaaatecca atatttgatc attcaatgct 360
acataaagtg cattgaatat cgaaaataaa acaagcgcca attttatcat taattaataa 420
cacatttatt atcttgaaac caaactggcc caagttactt tttggctttt tgagtcaact 480
ctggattaac tcaattcttt taanccttct ngggaataaa ancca 525

<210> 8243

<211> 530

<212> DNA

<213> Homo sapiens

<400> 8243

ggagggcagg taactttatt cagagcacat ggcgagtaag aggcaaaact tctgcctgcg 60

agtcaggat ttccttact ggaggacact gcttgctccc cagagctcaa gaccctgttt 120
 tttgtctcac tcccacccac agagctcccg taccaggca tcagctccca ctcccactcc 180
 tgggggctcc atttccttcc tgcccacat tcagcctggg ccagaagttg ccactggcaa 240
 ctctagtcct gggccagatc tggcccacag acgtgtttat ttggcctaca aaaagcagct 300
 aatactttga agttaattgt caacatataa cctttgggaa attaaacaaa aaacttgatt 360
 cccattttct taaaaggcct gtgttcctc tcacagcgaa agcaggggag cagccacttc 420
 ctttagaaca ggtgctagcc cctattcaga tagcttggt cttctttaaa ctgggctcaa 480
 ctggccntta ncccaagctt tggttcctt aanaaccagg cctggcccct 530

<210> 8244

<211> 519

<212> DNA

<213> Homo sapiens

<400> 8244

ggcttccaat aaaaaataat tcaactttat tagtatgaaa tattttgaga taattagtga 60
 cccaaatgca tgattctcca atatgaaagg tggtcagcat aagcatacaa tcatttagta 120
 aaactgctct ttatgagacc cccagaaaag ctggaggcac ttcctctttt tgggtggagag 180
 agaagacact acttaactgg ccatttcctt gctggagttt attccgattc ccttttgtct 240
 gattcttctt cctcaaactc gactaaagga gtgtgtctgt tggcctgagc accttctctg 300
 tagaacactt tctttactgt gccatccttt ggagacttta tggatgctc catcttcatg 360
 gcgatcataa ccatgaggga atctcccgct ttcactttgt ctccagcttt gacaaacacc 420
 ttttcaatgg tccagtcata ggagctaaag ggcccgcctg agtttcttgg gagctcacng 480
 nagataagat ttngggacct ggaaggcaaa ctcaatcct 519

<210> 8245

<211> 523

<212> DNA

<213> Homo sapiens

<400> 8245

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gggattagga gaacactctt taatgataaa gcctgtccaa gtactaagga caattagagt 60
aggcaggtga cctgtacaaa gtattagtga taacacaaca ttcagcttcc taagagttaa 120
aacgtgctgc ttacatgaag ggagatgata ctgagctaag aagtcctggt atagagaagc 180
agagagacca acctacttca tattatttat aaaatagaga atattctcag ctaacatgct 240
gggagaaaaa attcttccaa aaaggcagaa ttacaatcaa tgccaagatt tacaaattcc 300
atcatgttta aatataagga caaaaataaa catttcttat ttaaaaaaaaaa cccacaaatt 360
tccccaacta tagcttatct gttagcactt ctttatcagt ctgactattc tttaaaggcc 420
ttaaaacatg aatttgggat taaaacnaat taaagtgcc aaggtttaag aagccntatg 480
gtnacctaag gaggtaacna tataatTTTT agancatca tgg 523

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<210> 8246

<211> 570

<212> DNA

<213> Homo sapiens

<400> 8246

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atatthaaca gtgatttatt caaacatgtt tcacgtttgt gtattattag gtaacaagga 60
tattagaatt gagtctttac tcctatctc tagccagtta gttttatcag ggagataatg 120
cacacatgtg tacatggaaa gatacaaat aatacaatgc caaagaaagg aactcaaat 180
atgataagac agaacttgag ctagatcttt tgaaaagtta ggatttagat aagttgagaa 240
gaatgagaga aaattgctca caagagttag gaatatattgt gatgtgtttg ggaaaaaaat 300
aaatggaatc atttcactgg aattgagaaa tcaattagga gatattaaaa gctggggaaa 360
ggctggattc taggggtttc atatgtcatg aagacataga tttttgagcc aggaatattc 420
gaaaagcagt gttttggaaa atangcagca gtaaataaat gagaaaatta aagagatttg 480
angcnggtag atttctaatt tnaaatcatc aangccgaga aangaaggaa ggaaaaccaa 540
ggncgtttnt cagtatggtc cttcaggac 570

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<210> 8247

<211> 576

<212> DNA

<213> Homo sapiens

<400> 8247

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cactgtgaaa tatttatitt tgttttgtag tattaagcat gattaaacca gtgcagaaaa 60
atactaagta cattgggtaa aagatgagct agctgttcta gtatttgctt ttgtaatcc 120
agttaagacc atgagcatat acaatatcat cactaactca acaatgtagc tgcagggtaa 180
catgtggata ccctgtgtgc tctactggcc tccaaaggca ttcaggggat catcaaagat 240
gttggacacc ttgtgttcaa atcttgggtc aggtgcggcc tgtgcagatc ggctttttgg 300
tttggttgtc ttagcctgga taccagtgga gaagatgtca tccatatcat catcaaatat 360
agacttggtc tccactttct ttttgactt ttcttttggg ttacagtta agtcagcaaa 420
gatatcaatg gtatcatcaa ataaattaga ttccaatggg ttctccttct ctctgggttt 480
ctgaaaaggg ttaaagtgtt ccgtgcaaaa tttatcatcc tcaaaaatat cttgggtggt 540
aatatgacat cctgntgact acnggatttg gctcat 576
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<210> 8248

<211> 354

<212> DNA

<213> Homo sapiens

<400> 8248

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ggacnccaac tgcagcgtga ttatttgac aagacgtgca cttttcaaca gggcctnagt 60
aaccacggtt tccttcaactg atcagtacag gaccagggtta aaggggctta aagataanaa 120
agacaaactn ttcccaggaa cagatgggga aagaaaggag gaagaanagg catgtcctcc 180
cttctcctt ccctagtact ntgggcctcc gttcaccccg tgctggantg gggctnacca 240
agggaagctg ggggcantgt gtgtcacagc cagacatgan ctgaggctnt gactgtccac 300
tnagggtcaa aatggccagg tggacnatca actntgtccc cactnaggcc ccca 354
```

<210> 8249

<211> 562

<212> DNA

<213> Homo sapiens

<400> 8249

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aaattgaaga aagtgaaaag agtaagaggg gacattttgc atgcaaattg gccactgcc 60
gaagagccca ttaaaatgta aaaactccac attcagcctg acaaaacggt gcaaactgct 120
gtgtttgcc  gagggccggc aataaagctc acaacaaagg ggccggggga caatggcaga 180
ctgaatggcc tctgccagca ggtccccccg tgcgttgcca tggggacccc accggggctt 240
actaaaggta tttcctgagg agaaaggccg agcacacagg cccaggcagc ccggctaatac 300
ctgacaggaa gccatggcca ttcagcagcc caggggcttg gggcccagag ttttgttttg 360
tttttattaa aaaaagattt cggccttttg tgcgtccacc tcgtcactgt aatttaatgc 420
cnaaccgcc tgcactagcc aaagccacag caggaacctt gaccgncccc gagaccccc 480
aaaaacagat ccccccgagc ttggcancaa gacacgtgtg naatcccctt gggaatcnag 540
gcnccaaaac tnttgccccg ga 562

```

<210> 8250

<211> 544

<212> DNA

<213> Homo sapiens

<400> 8250

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gagatggagt ttttagctct ttttgcccag gctggagtgc aatggcgtga tctcgtctca 60
ccgcaacctg cctcccgggt tcaagtatt ctctgcctc cgcctcctga gtagccggga 120
ttacaggcat gcgccaccac accaggctaa ttttgtattt ttttagtag agacgggggtt 180
tcttcacatt ggtcaggctg gtctcgagct cccaacctca ggtgatccgc ccgcctcagc 240
ctcccaaagt gctgggatta caggtgtgag cccacacccc agcctaaaaa atgtttttca 300

```

tattatattc caggtaatcc cagacctcta tggggtaaatt ctggggattt ctiggaagaa 360
 agtgcactca tggaggggtct gtccacttgg ctccactcaa cagtttgaat ttggaattct 420
 gcttttcttc atgaagcaca agtcttataa gcccacacct acggncctga gtctgnactc 480
 ttancangtg ggaactggga ctgggggttg gctaacangg gggccactgg gcaaattggn 540
 tttt 544

<210> 8251

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8251

ctaacatgct tgtatttatt atattaaatt acaaatgcct ggagttacat ttgcttggtt 60
 tgtgtgtgcg tgcctgcgca tctatgtgtg ctagctccat attaaaatca acattttaa 120
 attaatgcaa ggtcacaaat ataaatggct acttggtttt tttcccttaa aaattttagt 180
 gcagctttgc tttccttaaa gtaatatatta attttccatt attttctatt taagcccttc 240
 atcgtgggtg taaatgggtac tgaagcccca gaaagtccta cagagatttt tcaccctaca 300
 gtagctctat gcttcaagcc taaatatatta taataacctg aatattatcc ctgtttcaag 360
 gaagactttc ttgnctacgg ttcaccctag ctatgatttt atatctaaaa gataatgcca 420
 acaacaaaac agcctatacc taaaattgat gggttattct gagtctgngc agatcatctg 480
 atgaaatgna actacttacc caaataaaga cgatgntctg tacactggat agcaatn 537

<210> 8252

<211> 151

<212> DNA

<213> Homo sapiens

<400> 8252

atgagtaaag ttaaacttta ctttacagta aatTTTTTTT ctatatacaa agaattacag 60

tacatgttta tggggactcc taacacaggg ctccccctctt tttcactagg agtttcactt 120
acagctgaca atctatgggg gcggnnnnnn n 151

<210> 8253

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8253

gagaggaaat aaagtttatt taaattcagt ttgtcaaagt acaaatatct ttgtacaact 60
tacgttcttc tttcttaaaa cttaaaagct agtagtatat tttataagca tttctccaga 120
ttttgatttc acaatccaca ataaaaagac tgtttaaaag aacttatttg tagaaattct 180
aaagttgtgc atttacttga aaagttactt tcacaaaggg tttttcaata tttcatctta 240
gttgtataat taaacagaat aaatggaaga attacacata aaatactatt caactagcca 300
tttttgntat tttaaaactt aacaagtctt tttttttttt tatatagcac acatataccta 360
acattttcta ctggataata taacagtaac agaaaagcat gtgttggtca aaaaagatac 420
tatngaattg ccaggcttat tgnatatattg gnggtcccat gngtaacact gngtacatcc 480
tcaattttan gggcttttaa aatggtttgg ttttgaaacc ttggttacnt aacgatt. 537

<210> 8254

<211> 542

<212> DNA

<213> Homo sapiens

<400> 8254

aatctcattt cattaccagg ccctgcgtga atgccatgtt gctttggaaa aaaaaaccaa 60
aaaagaaagt cttggtaggg aggggctttg ggaaggacca tgagagagag acagtgagaa 120
agacagattg atttatggag ctccatgact agatgctgat tttccaccag aggtcaaagg 180
gccacccccc tgtgccaatc tcctctttct cttctctctc tcgggcagat gagcctggta 240

gcccctggca gtgatgatgt gggaaccacc tccacaggga atcactaggg gaattctcat 300
 aggaggctcc cctttctctg tccccttctc ctgggcagtg gttcttaggg ggaacttctg 360
 ggaatgtctg ggggctgatg ctgctacagg gcctgcanag ggtgttactg gcattgatgc 420
 caggggccag gattgctgga tttcctacaa gggtaggaca tgttcaatga caaaatattg 480
 gcctccta at ggcaaatgcc ntaattaana agcctttgca atgccggaca agcttacaaa 540
 gg 542

<210> 8255

<211> 542

<212> DNA

<213> Homo sapiens

<400> 8255

atgatttgtc ttttaataaa aatggtaa ac tggagagaga aaattaggtt tcaaaaacta 60
 tagcacacct gttaaattct agtcttgact gatgtttttc aatttttatg gttttcgaca 120
 gtttaaatta catctgttac aggaatcaac ccctgcatac atcacactca agtcaaagcc 180
 tgaaaagctg aggaagcaat cccaacagcc cagaggaacg tcctaaatat caatgtaaag 240
 aaataagaaa tcttaagttg aaaatcataa aaaataacta actgagtgac aattactcat 300
 ctgactcagt ctcactctta cctcaccaag tactttttgt catttctacc tctcctttta 360
 agccaaatat taaagcttat ttatggaaat tatttaccat gccacccttg cgggaaactgc 420
 ttactggac tatttgcagt aggactatgt ctgnagcacc ctganggtan ggattcagac 480
 agacaatctt caataccga acattttgcn taaatactat ccttccgcag gaataacnag 540
 tt 542

<210> 8256

<211> 380

<212> DNA

<213> Homo sapiens

<400> 8256

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ccccattttc cagatgagga cncctgaggen cagagnggtt ttatttagct gctgaattcc 60
ctgacaagca cagagacaga ttaggtgtca ggatattatt tatagagccc ttggccttta 120
tatccctgaa tcagtcattt gacacccagt tcttgatttc agttccaaag ttatttcaac 180
cactctnadc atnaanccat tctgaaaggg anaaagggtt tnttaaaaat gatcatggag 240
aanaagtaga aaaaaatgac ctctggagtt ggacaaagct ggntccaaat cctgcaattn 300
ccncttacta gctgnttaac tctgaaaaag cttttaagtt ttnggaggtt cantatccct 360
ttttttttaa aatggngatc 380

```

<210> 8257

<211> 534

<212> DNA

<213> Homo sapiens

<400> 8257

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gttgtttgcc tttttatttg gccaaatcca tagcgactat aactaaacca aaacatgagc 60
taagtaaagtg aaaactactt tcttctggag gtttattttg gataaaatag ttgaagacag 120
actacaatga gacattgtaa aataagacta gaaaataatt taagagcgta ttttaagcac 180
gggattccga cacactcata aacgtgtttg ctcccagctc ttacaaaaga aaataagggt 240
tttctccatc aaaaacaacc cagttacacc agtaaattctt cccagttctg aaaatctgaa 300
gcaactgata ctccattaaa tgtggaaaca ctgtctactc aaaatatttg taatattatg 360
cagtgacaaa aatttcccac acctatatag ggtaaacat agttttcagc aaagcaacaa 420
gtgctttact tatttggtt tttcagttta tacagagctn caattcatga aaccttctgg 480
gccaaaccag gaaataacag cancttttaa cgaagccgc caccaacggn tctt 534

```

<210> 8258

<211> 540

<212> DNA

<213> Homo sapiens

<400> 8258

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ctgctacaaa gaggacatat atttgtacat ccttaccat atacataata acacaattta 60
cacataatat cttggagtgg gtcacatgg aaaaggggtc tggagagccc cttctgcctc 120
ccctgccccca atccctcttc aagggatgct tatacacttg gtcactgggg cccttcccaa 180
ctagtttgat ggggctcgtc tggacacaga aattcagaca tgtgactaaa tgctgatggg 240
catgtataca cattcacacc cacacacaca tgcagacacc tggtagagaa aggaaaaata 300
aaattcctag cccttgggtg taggcctctt tccagagtta caagcatcag tgcctcctcc 360
atctagaata atggttttta aaagctaccc ctnactggct caaactgggg cagaagggga 420
acngctagga aaccaggaag anggaagaag gggccaggaa tctttcgaaa atataaggcg 480
tttttgacct gngatcaaat aaactttgtt cccaaaaaaa aaaagcaccg gttttnantt 540
```

<210> 8259

<211> 553

<212> DNA

<213> Homo sapiens

<400> 8259

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gaaggaaatc tgtctttaat gagcaaatgt aaggctgcgt tttctttgcg aagtctccac 60
aggattttca cggcaaaacc aatgagaaaa tgtcctttca aagagaagac cgagtgtccc 120
gagaacattt tcttgaaagc gcgtgcacgg gccgccctct cgaggcatcg taatgtgctt 180
caaagaacac ttggtaaaac cctctggcta aaaaatcaaa atttccaaag catatacatt 240
tgaaaaaaac aaaatctcca cttaaaagct tattttgact tgttgcccgg gatcaattgc 300
aaaagcgctt ctgttgagaa aggacagttc agccaaactc aagctggttt ttagaaacag 360
aactggagga agaaaaaccc agaaaacata aggcaactggg caaatgtgac gtaggctggg 420
atgaaaccca ttcttccaga gcccggtctn ttccacagca caaagctgnt tctcatgcaa 480
ccagctggct naaggccccg aatgtgtgcc cagaaggagg accgggcttg gggaagggna 540
aaagggaagc ttt 553
```

<210> 8260

<211> 518

<212> DNA

<213> Homo sapiens

<400> 8260

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agttcttcag gttctttctcc tggaaaggcg gaggacacac caaactgcac tggccctgtt   60
aggggacacg gcaccctcgt gggaccaggc tcagccctcg ggggtggcacg aggtcctgca  120
ggctgcagga ccttcacact ccagccccgt ctgggtgaccc aaccggggcc cgtgggtgcat  180
gctggggaag gccactggcc ggcccctggg cttcggctcc tgaggaggca tggccccaca  240
ccctgcccgg ccataaatat atacagattc ctgggcatcc agggcaccag gaccgacgca  300
gagctgggggt cctgtcccta agcctgtggc acagcgactc ttgacatggg agccaggagg  360
ctgggaccgc cgcacccctc ccctgcctcc ctctgggggt caccaccctc angcggtgc  420
agctggccta ngacgccgng gaacttgctg ggtgcttgtg gnccagttct ttgacctttt  480
cacaatgtnc tgggccgngg aaggcnatgg gtactcna                               518

```

<210> 8261

<211> 532

<212> DNA

<213> Homo sapiens

<400> 8261

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gagctgataa ttgatcttta ttatacagaa atgtgaaggc cataagcatt aaatgagaag   60
gagtttgga gtgaacatta tgcagattca aactgaaggt atcctcgtct tactgagata  120
taaaaataaa cactaagagt tgcaagaaag aactcaattc aacttctatc tcccaatcaa  180
gctataactt tccacaggaa aacctggttt caattcatgc cgaattgttc aaagaaaaga  240
aaaagctaaa tcagtgagag acaacacatg gactggcttt tgcctatta gagagccaga  300
ctgaagctgt attcagcctc acatttagag actgtttcct attacaattt atatctctat  360
ttgcctaaga gatacctaaa gtgaaaaaca aaaaaatgtt aactgactgg ggcattttgt  420

```

gggctaagta gatttggcag angagagaaa tgaataataa tcattaatta ttctaataca 480
gaggattnat gtcagnctgg tcatctggan taacccttga cgtttgggtg tt 532

<210> 8262

<211> 548

<212> DNA

<213> Homo sapiens

<400> 8262

agctttgtgg gctgagtta ttttgcttct gggtataaac aaatgtagtg tatacacaca 60
tctgtccaag aaatcttgca caaggtggat ttacatggg gtatcatgca caagattaaa 120
aacaagacca aaaggtggaa attttaaaag aggaaaatat aaaggctcca aggtttaact 180
gctctgggta gaagagatca catctgttga ctgaggatca cagaaaggcc caaaacgtcc 240
ataaatatcc ttggctcgta ctgcaaagta gtatttgcta ccagatacaa actgggtgag 300
agtacatgcc atgggcaagg gaagtgcctt gacttcccca atctttttcc attgtgaggg 360
cacagtggca ctgggttcct catggtaagc atagagatgg tagctatcaa cagtggcaca 420
gcttcgatcc accttcaggg acaccccatg acagtactat gccattttga ctctgaacgc 480
ctgctacttt caagtggngc ttctgangan aaaaaanntn cttggcaagt ttntgggggc 540
aaaccctt 548

<210> 8263

<211> 546

<212> DNA

<213> Homo sapiens

<400> 8263

ctaagcagca agccacgcac ctcccgcgt ggcgaaatcc gagaccgccc ccttccggaa 60
gttttgacac tttgtgcgcc ccgggcaatg cgattgagag ggtaatcatc cgggtccgtta 120
tctaaacccg tcaactccggg aaacagcgac ccgatctttc cggatccgcg ctctccagc 180

atcctttgcc ttcgggtatg tggccccgtc tggctagtcc cgcctagcgc gccatttcg 240
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 agtggctgtg ggagctggaa tggcgcagct ggaaggttac tatttctcgg ccgccttgag 360
 ctaccttttt agtatcctgc ctctctttct ccgccttcag ccgggcgttg cgagagccct 420
 acatggacga gatcttccac ctgcctnagg cgcancgcta ctgtgagggc catttctncc 480
 tttccangtg ggggtcccaac tgttcccaac ccaagaaaag cctnaaaggg ccancgtnc 540
 cacttc 546

<210> 8264

<211> 551

<212> DNA

<213> Homo sapiens

<400> 8264

aaattactaa tgaatgtatt tgagaaatcc aaattacatg cagacagaaa ctggtcacaa 60
 aaaccattac atttctctat actaaaactg tacaatgttt taaacatttc caatcatgca 120
 acggtaatga agatcagcat gaattttata agagttgatg ggagttcaat gaacaggatt 180
 taacacattt tacaacccaa atcaaagttg aataatacat ccaattcccc taaatttata 240
 tatgcgttga gactgaaatg cacattattc cccacaaact cctcccccta cccattccc 300
 aatcaattac cttacctata aaaccttcca tttaaccttt taagtcagat ttgatgggta 360
 aacatgtaat ctacagtata ctctccatta ttatttcagg atagacacac atatagtcag 420
 atgctgaatc ttcattacat tcctttcaaa angcatctaa actggtgcaa ttgnctatga 480
 aaattcaggc ctaggaaacc nagaaaactg ggaggcaaga atctgactan gnaggttcca 540
 actntatccg a 551

<210> 8265

<211> 551

<212> DNA

<213> Homo sapiens

<400> 8265

```

cacattcaaa acagtacata ctttattttc aagcatacaa gaaacactaa actcttccag   60
tgccagtaca ctctccatga attcttcata tagaattggg tatattggaa gcaagttggt   120
tctggtgaaa tttctgatga tcaggaatca agactcagta gccctaaagg aagagagttt   180
tgtatccaat atcctcaaaa ccaagacata gtatatTTTA ctttcaaagt aaactataaa   240
cattttacca tatecttcaa tccataaagc atctcactgt gaaatgatcc atgttgactc   300
tgcataattc tcagaagtca cttcaagtga tgagggacta actataaaac atgcattatt   360
tgaagtacat gagcatgaaa catcgaagtc tacaacttat cttaaagaa agagtaagtt   420
ccaccagctt tttattgggt gaataacnag aacacacaaa accaggcaga gaagtncgca   480
agгнаatgga tgatcatatt tcactggttt ttggnctttt ggnccctcat ctttcaagcn   540
cttccgggnt t                                                                551

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<210> 8266

<211> 561

<212> DNA

<213> Homo sapiens

<400> 8266

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caggcaggtg aaagcatgat tttgctttat ttggacaata aatgtaggaa aaaagagata   60
tacctagttg ataagggttg cattcttctg aatcatcccg ttatcaactt gaccaagcta   120
aaatctttct cacaatccac ttctctttct cttcctaate tgcattggtc caggttagag   180
ttggccaaaa gaggagcttg ttcaggattt tgaagacaga agtaaagcag tggccattac   240
tctcagcagg tcgtttactc tgcattccagc ccatactctt gaatgctgac ctactgacca   300
agcaaatctt catccatggc cccagagatt caatagctac acagaggcat cccatagccc   360
cctagaggag ctctctcttt gctttccatt caatcccaga gctgtgggat tctcctgcat   420
ttctttttta ctctcttagt aaaatgtaat cagccttttc tgnagcatat tccatcaatc   480
actgncaaag aacatgaact tcacattaaa gaccttaaaa ggggcctccn ttttttagcc   540
aaaaaangga ccnggttncc g                                                                561

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<210> 8267

<211> 553

<212> DNA

<213> Homo sapiens

<400> 8267

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actttcttct ggaggtttat ttggataaa atagttgaag acagactaca atgagacatt 60
gtaaaataag actagaaaat aatttaagag cgtattttta gcacgggatt ccgacacact 120
cataaacgtg ttgctccca gctcttaca aagaaaataa ggtttttctc catcaaaaac 180
aaccaggtta caccagtaaa tcttcccagt tctgaaaatc tgaagcaact gatactccat 240
taaagtggga aacctgtct actcaaaata ttgtaatat tatgcagtga caaaaatttc 300
ccacacctat atagggttaa ccatagtttt cagcaaagca acaagtgctt tacttatttt 360
gtctttttca gtttatacag agctccaatt tcatgaaacc atactgtgcc aaaccaggaa 420
ataaacagca acactctagc gaagccacgc caccaaacng ntactatctn ctgncctttt 480
accagctttt ctntttccag acaggcaggg cttgggcctt atatcaacac gggttattcg 540
cttcctttnt ttc 553
```

<210> 8268

<211> 547

<212> DNA

<213> Homo sapiens

<400> 8268

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actgttttaa gatcatttat tagaacagtc attcagaagc cattgagaca tcaggcagca 60
gaaaggaagg tgggatggag caggccctgt gaaggaccaa gaacaaagta atagccacag 120
ttatgaaatt tcattttatt ctgataaaga ctaatatatg cttgataacc tagtgataat 180
ccataagttt ggtatttcac aacatttttt agaaagcaca taagattaac attcaaataa 240
ggcattatag aaagttttat aaagaatgaa gtgtttccta tatttctttt aaaaaacctt 300
```

ggttcacatt gaaagatcga tgaatTTTTT aaatatcaga agaaaaggga aataaaattt 360
 tccccccaaa acacataaga accacttact ggcacttgta ttttaagtcc tgggaaaaaa 420
 acggaacaga tttttaagg caataacgac ttgtaagacn gcttgnttca tttgatttgg 480
 cacgaagtaa agtnagagtn aatatgccnt ggnagacata atccaggttt tctcatctn 540
 tcatatt 547

<210> 8269

<211> 439

<212> DNA

<213> Homo sapiens

<400> 8269

gacacgagac ataaaaactt ttaatgaagg aggacacagc tcagagccct tccacatgcg 60
 gccaaccct gcccacgga gaccggccat ggcaaccgct caatcagaag gtgttcttga 120
 tgcggccggc caccagccta aggatgtccc cgatcttctt ctgccagttg gcgatgtcct 180
 tggacacggc gcaccacagc tccccatgcc gaggtctctg actctcacag cgcttcctca 240
 cctcctcctg ctgctcctca gtgccatgct gcagctcaaa cttgtagaag aaggcccagg 300
 catccccag gtccgagtca atcttcacag tgcggtggaa ccactccctg gccttggtga 360
 tcttcgntg actccaaaac agcttggcca cggccaggan cacatggggg tcatgctcac 420
 actnttnan ggnatncac 439

<210> 8270

<211> 548

<212> DNA

<213> Homo sapiens

<400> 8270

cagaaattga atagtttttt atttgtttgg gtcaatctca gtactactag aactcaaaat 60
 actatattct aattgttcta atttgiacca tctgcaaaag accctttaag actgcttcaa 120

tgattctgaa aagaattaac aaaaccctgt tactaggtgc ctgaccttag atattacaac 180
 tgtttcattt acaaaacctc cactacaaaa cactaagctt gcaacaaaac aacaaaatga 240
 aagccacata atttgagtaa cacaatagta catattcttc agctgatgag agtaataggg 300
 aaatgtatat acttcctaca caaatgcac tagggaaagc aggctatatt tattcaagaa 360
 ctagaaaaag gttacaatat aaatctatca aacaaaattc atttttgnta tattcaagta 420
 actcatatat attcaaattt agaccaaatc aaggacaaca atccaatcnc aggattatta 480
 tatagctcaa ggggccaaaa acaacagtct ttggcaatcc aggacttttc ntaaattccc 540
 aatntnna 548

<210> 8271

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8271

actgaaaaac tcagacttta ttcagattaa gttcctctac aaaaagtagg gttctgtccc 60
 atgtgtctct gacacattta caaaatacca gttttttaaa attttggta aattatgagt 120
 gggttgattta aaaacttttc caagaagaag aaaagcatgg agtcgtaatt taaagaactc 180
 aataaaaact tctatTTTTT attttaaaat aatatacaca gtgttatTTT cttcaagacc 240
 gtcctgtgga tgtgaaatcc gtcttcgcgt catgtatctc ccatatccag cagttcagcc 300
 atccagctac ctttgggacc ctgctgcacc ttgtgtttgc tggggagtca ctggagagtg 360
 catctctgtt cagtttcagg gcacgtctca cacatttgct gntccttatt cattgggtgac 420
 acaggggata ggtgatccac tacttgctgt agaatgtcct tactttcact aggangcaga 480
 ttactggaat agtattgggg gaccagctgc ataaataggt cangagagat tctgaggnaa 540
 tnc 543

<210> 8272

<211> 531

<212> DNA

<213> Homo sapiens

<400> 8272

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ctttgatcaa gtttttaata agcttttttc ttacatgtac agtcatctta aaaagacaaa 60
tattaactat tataagttaa atactataca atttatgaga aatgtaattt tgtgaatttg 120
aaaagtaaaa gggaggtaac tactaaacgg attaaagaag aaaattctac tttttaagac 180
attttaacca gacagaaagt gagaaattac taatttaagt aaacactaaa aacttttact 240
gaagctggag accttatact attttagatc aaaccttcac ctacacagct ttaaataaac 300
tttaaaaaat cttttctagt acatataaga ctgctaaaaa gagtgcata ctgggggaaa 360
aaaggcatat gctagaatgt gaactcctga agaacagaaa tacatttcac tcactcttat 420
ccctggattc ctaacacaat gcctgggtca aactaaaatg cttaaacaac gtttgctgct 480
tgaagtgnac tggggcnaat acatctttcc actttgggcc agtttccttc n 531

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<210> 8273

<211> 465

<212> DNA

<213> Homo sapiens

<400> 8273

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aacaagaccc aactatatgt ttattagaga agaaccagca aatatattga caaatatgtt 60
gaaagaaaat ggggtgaaaa atacaccatg caaacagtag acatcaaaag gctagactgg 120
ctagactgat atcagacaaa atatacttaa gccaaaatgt acactgcata tttttaagtg 180
gagaatttta tattgtatga aattttatgt tctgtcaatt atatcacaat aagaaatgta 240
ttatcaattt cattactcca taatgataaa agnctaating tcaaggacaa cacancagtc 300
gaaatttgta tgcattcaat atatgaagca aaaatacatg aagcaagtaa ctgacagaat 360
gaaagtgcag aagagatagt tccacaaaca tcaactgcaa tattaacatc tntacctagc 420
agntactaga acanttagac cagaaaatga ntaaagacnt nnaag 465

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<210> 8274

<211> 525

<212> DNA

<213> Homo sapiens

<400> 8274

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cttgcaaacg tcattctgtt acacaattag gtgacatgct taattctccc cagcatgggg 60
acattcttcc tttctgcaac ttcacacaca caaatccct ggagctgtcc caagtgtgta 120
cagtaataac gttcacatgg ctactccaag catccagtga tggcaaccaa acgagatgca 180
gttaccacag agcagtagtc tgacttttga taatcaggaa taaagaaccc agtggtgaag 240
gtgctgggtc actgcctcaa tgtggggtac cttggaaact gcctgccaaa cacaggtcaa 300
ggatggaacat acatcctcct ggggaacggc tggatcaacca gtcattgtta ggagttgaga 360
gttctactgt gggaagaggt ggcaacagct gataacacaa agcactgtgt agaccaaagt 420
gaaagtcccc atcaattgct ggttctaatt cangtgactt ctggtatatt atgggaccng 480
ntngacaaaa acnggtngtt aaagcttgaa agatttaata ngcct 525

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<210> 8275

<211> 536

<212> DNA

<213> Homo sapiens

<400> 8275

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aattcattaa cattcatttt ggtgataaaa attccttagg gtgggagcaa aatcacattc 60
ccaagcaaat gttaaattct cctgagggaa aggggtacag ttaaacatta aattctcaaa 120
ataccactga gctcagagag gtgattgcag gtcctcttga ggcaggctac accccacagt 180
gatgacagac ttggcaggtt ctgcagtaac acggtcttct tcattcagcc agcgagatcg 240
acggtgatgc ccactggggc acagaggaag ggtgcccttc gctgggaggg ccaaggaagg 300
ctaccggagg ggcaagtcca gcccatcagg gtcacatcat gggatcacag cagagttcag 360
acagaacaac ttaaaactct gcaaaagaca ctttaaaaac atgatctctt gaaaaataa 420
atcgcaacaa ttttcaactt catgccaatc ganggcngaa gantgtgaat aatgnntaaa 480

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nggaaaactt gaaaaataac ctggatcttn tttggcggaa tcagttatnt ccaaat 536

<210> 8276

<211> 534

<212> DNA

<213> Homo sapiens

<400> 8276

attcatatcc acaaagtggg ttggtaagta ttattagtgc aaatttctgc tgacctgcag 60
catttagtcc ataaactttg gatatacctag gcatccatc agagtccagc agatgttttc 120
aattagttta atttcatactc taggcaagtt ctgtttccaa acattagtat tagttgggtga 180
tatttcccct tcatagggaa ggtaaaaaag gtttgtagag gtggcaaaca atatttggtt 240
taaactagca ggagacaaag gaattccaag aaaggcaaaa atcctttcag tagttttctg 300
aggaaaatgc acaatatctt caaacttgac cagctggtag ctagtaggca gcaaactctgn 360
atttattctc aaggctgctg ctgnatttgc tagccacaag tgagacaaga nggacactgc 420
atttgatttg gatttggata attctttcct caatgggtca tactcgaagc ataaccccga 480
atttaagtta catttgcctt acctccctct attttaacaa tttgctnaaa gccc 534

<210> 8277

<211> 545

<212> DNA

<213> Homo sapiens

<400> 8277

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ctaaattaga ctaaataata atgttatata acccactgaa tggatttata gtttgacagt 120
gttccttgca agtgtctact catcttccat ctttttcctt tttttaaatc attctgcccc 180
agtcttcact taatcatcac atgcacttta ttccatcaaa catcacttct caggatcatt 240
ctacctgaag aatcattaag cctgtttaga gcttttccag tcttaaaatt tgtcatcttg 300

actacacatc ccaaggtact acttttctca ctttttctgg ttagccagaa tgttccatta 360
 agaaacaata aaagttgnat agttctctaa gatgaaagat tagtatattc aatggctatt 420
 atattaacca tttaggtgga catcnacaaa aactatcctt atattaattg actggaggtn 480
 ttacntagga aataagtacc ctctctttgc attcacttaa ngctacagat nctcaggaat 540
 caaan 545

<210> 8278

<211> 502

<212> DNA

<213> Homo sapiens

<400> 8278

gatttctctg tattttatat ctctttgtta agtttattaa tgtataccgt ttttcaaata 60
 aacattttga acagcccaaa tcaatcaaag ccatgagatc acaaagtgtt gcttctcgac 120
 acaacattag cttgttcaga aaatccaaaa gccacatcca aagatcaatg atgctacctt 180
 aaagacatga gggaggctcc ttaagaccct agagacacca aggacccac agggccagtc 240
 atatgaacag gctcagaagc cggcttgatc ctcagcacct ntgcaaagcc atcaccaaac 300
 cagcaagtga catgcgctat gtctacggta aagtagaaaa ggcggtcctg gcaaagcttc 360
 cggcggtcac agaccgagga tccgctgaca gcacagcctc aatggcacgc tttgcttctc 420
 tgntgactga aaattttaaa atgacgcctg gccacatntt gngnactgag cttgcccang 480
 nccattttgg cttgaggngt aa 502

<210> 8279

<211> 546

<212> DNA

<213> Homo sapiens

<400> 8279

aaaacaacag aaattttattg tctcacagct gtggaggccg gaaatctgaa accggggggt 60

cagcaagcag ggccgtgccc ccctgtgaag gctttaggga aggatcctgt cctgcctctc 120
 cgggcagctg gtggttttct ggcagtcctt gggttccttg gcttgtggtt gcgtccctca 180
 ctctgatctc cgactccttc acacggctgc cttctccctg cgtgtctgtg ttcattgtggc 240
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 gactaattaa tctgcaacga ctgtgtttcc aaacaaggct acattctgag gtgcttcaag 360
 ttaggacttc agcctatctt ggggtcctca gccctaacca gggcaccac tgcctncggc 420
 atcagctcct gctgggcaag cgcccggnct ggtgctctgc tccctgctta ncccgtgggc 480
 ttgnccacat gacaaggga aatggtctgc ntgcatttaa cttganaaag gaagccctta 540
 cttncct 546

<210> 8280

<211> 542

<212> DNA

<213> Homo sapiens

<400> 8280

gttcaatata gactataatt aaataatgtc ccaattagag tgtgagctca gaaagggagc 60
 ttccaagaaa agcttcacaa aagaaaggac cttggaactg aggtatctga cacctggcac 120
 tcattcaagg aatatttggg gaataaatta taggtggaat attaataggc agcagaaatg 180
 atggtggatg ggagaattcc aagcagacct cggaggcctt gaaatgtttc cctgtataga 240
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 gtgtgggatt ctgaatggtt tttgagctgg tgaacagctg acagatgagc agtttataga 420
 atggtttctc tgtggaagca ggggaatgga ctggttaagg aagaacctta nttcttaacc 480
 ngatgacacc aangggcttt tgcantngnc cgggtaatgg gcaggaggct caattttata 540
 cc 542

<210> 8281

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8281

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cccaaaaata tatttaataa gcttggtata taaaatcaaa cacttaacat tgtcaacatt   60
tcttcagtta ttcaaactca ctgatatcta actgggagta gtttgtattc tggaagactt  120
cctaagctaa aagtatattt acatatattac aacacatgta aatataactg aagaactact  180
tcaaataatg ttgaaattca cagaattcta gagatttata gttatagttt anaagtatca  240
ccaatttggt tgcaatcaaa tgtncagcac taattatgaa gaatgtttta actattaaac  300
caaaagggga gaaaaactgg gagggaaata tatggngtta aagtcctgtg ataaataactt  360
agaaaattaa aaagtaataa tatacattcg atttaatgac caaaaatttt ttttgaatcc  420
ctggtgncat tttnggagct taaccagtc tgtcanaagg cagtattgct atgctgncng  480
aacctttcac tggctcgtca aagccttgct aaagccgnac agcactggct ggaaaaa   537

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<210> 8282

<211> 551

<212> DNA

<213> Homo sapiens

<400> 8282

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aaaggataat tgaggaaaaa aaaaaatcaa gatttggggg gaattaccta caaagatgta   60
aggtaagtcc gttggttggt gatggcctag ccatcttgtc tggtttttaa aatgtgcttt  120
tctgcctcgt cctgtctcgt ctctctctac cccactcccg ggcgtggaat tccaacttgg  180
tagtgctgga gccctggggt tgatgggggtc atctccaata tgatgtggat tcctttccga  240
tgggttggca ggcagatgga acaaggggtg gaagacttaa aagcaacctn tcaggccagg  300
gggaagggaa ggagctccag gccggttcag accaggaagc ctgggtacca ctttctctgg  360
ctctcttttt cagacctcca ggttgccccc cagagcttca caagtctctc ttcttcttc  420
ccatccccta atcctcgttc gccctttccc atacaagtgt gtttaatttg gccctttttg  480
ggatctaccc tgaggaagaa gcccctgggt taanaggana ggtcttgtgt aggtgggntg  540

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ggggttccca n

551

<210> 8283

<211> 558

<212> DNA

<213> Homo sapiens

<400> 8283

aaatgttcac ggcagcttta tttgctttat ttttatttag aaattggaaa taatcgaaat	60
atcgggtcaac aggtaaataa ataaactgtg gtatatccat gcaatacaaa atgtggatta	120
ttgatgtaca caaatgggt gaatgcaaaa ataattatgc tgagtagaag cacctcccc	180
cacagtactt gctctgcgat tccactcaga taaaattcta gaatatataa aitaaccttt	240
agtgagaggg agcagaccag tggttgcctg aacatggagg acacgaggga cggtttagac	300
cgggggtgtga aactgctgtt ggtgggtgatg gacatgttct ggcgacagct tcacaggcaa	360
atgcatcggc cacttcacgt atgtgcagtt cattacctgt cagttacacc tcaacagagc	420
tgttttaaaa agcaaggtgg ggccggcttt ggtggctcac acctgtaatc ccacactttg	480
ggaaggccaa ggaaggagga tcnttgaggc nngaatttta agaccagnct gggcaccaat	540
nngacctnt tcttttta	558

<210> 8284

<211> 524

<212> DNA

<213> Homo sapiens

<400> 8284

acaagggccca aatgtccac gtttatttac atatgaaatg tgtttcatac agttatgatg	60
gatggagtgc ataacacctg acagcagcaa gaccttttga ggaaccgaac attgactaca	120
gtatatcatg caagtatcta tatatacaca aaagaattcc ttttcttaaa aaaaaaaaaa	180
aaaaaggtac aaaacatgtt cagggataaa tacaagatac aaaatgcaaa agaaaacaca	240

aaacaaaacc aaaaaataga actntntcag agaactataa acggaaggga cagaanagta 300
 cctntgctgc attttaataa agcagaacta ccgacgttaa atatacttct tgaaatggct 360
 gaactaaacc cgggtggctc agtgcttaag gtaacggcca attgcaatac acangcggtt 420
 gcattgataa gtcngtggtt gaaagntgng cattccgact ttttaagtncc ataacgggtt 480
 gggaatnccc ccagaacang gaacccccact ttttttgcaa ncaa 524

<210> 8285

<211> 472

<212> DNA

<213> Homo sapiens

<400> 8285

ccagatatat tgagggtgac ccctctgaga ttagcacagg agagttagaa agattataaa 60
 gatacacggt cccctccctg ctcccttccc ccaccccccc acccctggac agacacacac 120
 agcacaacag cccctctccc tcccaccccc ccgtacaaat atggcttctg tgtaatatgg 180
 acagagtggg tcagcttgaa gaggaaaagt cattttccca aaagcgggtg ctgggagaca 240
 agaagctcaa caggcctggg gccccagggc tctcttgctg tngtaagagg agtaggcccc 300
 ggcttaggtg aggggctgcc tgtggtgccc aaggccctaa ccagcggctg gaagattcac 360
 aactgtatta cctgaactga aggggggtggg caggcctgnt agantgcant tgcccttttt 420
 ggatgccccat tngagacca gggaaggaaa ancctggggg naagggtggga nc 472

<210> 8286

<211> 483

<212> DNA

<213> Homo sapiens

<400> 8286

agacaattta cacaaattta ttagcctcct atgactcagt aaagcaattg aaaaaatata 60
 gctttataag gcataaatga ttttatgttt taactaaggn actttctggt aaacagngcc 120

catacatttt aggaaatatt tcagtcttta gagaataagt aaggcaaaaa caggtccagg 180
 agtctacaga tgacctcccc tcaccacaag tccaagtcac tttttttttt ttttgaaacg 240
 gngtttcgct nttgttgccc aggctggagt gaatggngtg acctcggntc actgnaacgt 300
 ntgcctccta tattcaagca agtntcctgc gtcagcctcc tgaatagcta ggattacagg 360
 agcatcgctt gaacctggga ggtggaggtt gcagtttagcc cgatatgacc ccactgtctc 420
 cantttgggc cccaaantga gactgtctca aaaaatnang gnaaaagaan ggaaaaaaa 480
 naa 483

<210> 8287

<211> 549

<212> DNA

<213> Homo sapiens

<400> 8287

aagacaagat gcaggaagaa gaaattgaga attcactaca taacttccca ccatcaaggc 60
 tttaacaacag caacattttg ttttccttaa atgttcctgt ttggtagtcc aatgctcaaa 120
 aactgaagac agtatgtttt ggatcacttt tgtcctggaa gaaaaaaaaa aaagtctagg 180
 ggtcctctac aaatagttat gaccaaagct cagcaaagaa tgggaatgac tgcaattaaa 240
 tgccactggc cctggctcac taacagccag ccagtccttg ctatctggca acctttgtgc 300
 tagcttcctg cctcttgcta cacagagaac acagggcctg tcttagctca ggccaccata 360
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 ggctggaaat ncaagatcan ggtgccagca tgatanggt cttggtgggg gctntctttc 480
 tggcttgnaa aagggcactt tctctttttt aaaatggaat gggnanccta tggatggctg 540
 gacncacan 549

<210> 8288

<211> 552

<212> DNA

<213> Homo sapiens